2-913 101 1/24

CITY OF MILPITAS
MILPITAS SENIOR CENTER
REPAIR AND RESTORATION PROJECT, PHASE 2

160 MAIN STREET
MILPITAS, CALIFORNIA

RECORD DRAWINGS
4-1-93

GROSSMANN DESIGN GROUP
ARCHITECTURE PLANNING RESEARCH
151 Townsend Street
San Francisco, CA 94107
415-543-8618

GENERAL NOTES

1. THE OWNER, ARCHITECT, AND ENGINEER WILL ASSUME NO RESPONSIBILITY FOR VARIANCES BETWEEN ACTUAL EXISTING CONDITIONS AND CONDITIONS DEPICTED AS EXISTING ON THE DRAWINGS. THE CONTRACTOR SHALL INSPECT THE BUILDING, AND SHALL VERIFY TO HIS OWN SATISFACTION THE CONDITIONS THEREOF. IF CONDITIONS IN THE FIELD ARE AT VARIANCE WITH CONDITIONS SHOWN ON THE DRAWINGS AND MATERIALLY AFFECT THE GENERAL CONTRACTOR'S ABILITY TO DO THE WORK, HE SHALL IMMEDIATELY INFORM THE OWNER.

2. DRAWINGS OR NOTES DEPICTING EXISTING CONDITIONS HAVE BEEN DEVELOPED FROM FIELD INVESTIGATIONS UNDERTAKEN BY THE ARCHITECT AND ENGINEER. THE DRAWINGS AND NOTES DEPICTING EXISTING CONDITIONS ARE INTENDED ONLY AS A MEANS OF PROVIDING THE CONTRACTOR A GENERAL SENSE OF EXISTING BUILDING CONDITIONS. THE OWNER, ARCHITECT, AND ENGINEER WILL ASSUME NO RESPONSIBILITY FOR VARIANCES BETWEEN CONDITIONS SHOWN ON THE DRAWINGS AS EXISTING AND ACTUAL FIELD CONDITIONS. THE CONTRACTOR SHALL ASSUME THAT THERE MAY BE MINOR DIFFERENCES BETWEEN CONDITIONS SHOWN ON THE DRAWINGS AS EXISTING AND ACTUAL FIELD CONDITIONS. THE OWNER WILL NOT CONSIDER REQUESTS FOR ADDITIONAL MONIES FROM THE CONTRACTOR DUE TO MINOR DISCREPANCIES BETWEEN CONDITIONS SHOWN ON THE DRAWINGS AS EXISTING AND ACTUAL FIELD CONDITIONS. IF MAJOR DIFFERENCES BETWEEN CONDITIONS SHOWN ON THE DRAWINGS AS EXISTING AND ACTUAL FIELD CONDITIONS ARE ENCOUNTERED BY THE CONTRACTOR, THE CONTRACTOR SHALL IMMEDIATELY INFORM THE OWNER AND ARCHITECT AND/OR ENGINEER AND SHALL STOP WORK IN THE AREA WHERE THE CONTRACTOR HAS ENCOUNTERED MAJOR DIFFERENCES BETWEEN CONDITIONS SHOWN ON THE DRAWINGS AS EXISTING AND ACTUAL FIELD CONDITIONS. THE OWNER, ARCHITECT, AND/OR ENGINEER WILL PROVIDE INSTRUCTIONS FOR PROCEEDING IN THE AREA WHERE THE CONTRACTOR HAS ENCOUNTERED MAJOR DIFFERENCES BETWEEN CONDITIONS SHOWN ON THE DRAWINGS AS EXISTING AND ACTUAL FIELD CONDITIONS IN A TIMELY MANNER. IF THE CONTRACTOR IS REQUIRED TO STOP WORK IN AN AREA DUE TO THE CONTRACTOR ENCOUNTERING MAJOR DIFFERENCES BETWEEN CONDITIONS SHOWN ON THE DRAWINGS AS EXISTING AND ACTUAL FIELD CONDITIONS HE SHALL PROCEED WITH ALL OTHER WORK ITEMS AS REQUIRED BY THE CONTRACT DOCUMENTS.

3. ALL WORK SHALL CONFORM TO ALL CURRENT CODES AND REGULATIONS INCLUDING BUT NOT LIMITED TO THE LATEST EDITION OF THE UNIFORM BUILDING CODE, OSHA, THE LATEST APPLICABLE SECTIONS OF THE STATE OF CALIFORNIA ADMINISTRATIVE CODE (INCLUDING APPLICABLE SECTIONS OF TITLES 19, 21, AND 24), AND ANY AMENDMENTS BY OTHER GOVERNING JURISDICTIONS.

4. ALL WORK SHALL CONFORM TO APPLICABLE REFERENCED STANDARDS AS ENUMERATED IN THE SPECIFICATIONS. SPECIFIC REFERENCE STANDARDS THAT SHALL BE COMPLIED WITH INCLUDE THE NRCA ROOFING AND WATERPROOFING MANUAL, THIRD EDITION, AND SMACNA, ARCHITECTURAL SHEET METAL MANUAL, LATEST EDITION. WHERE REFERENCED STANDARD DETAILS HAVE BEEN MODIFIED AS SHOWN ON THE DRAWINGS, EXECUTE THE WORK IN ACCORDANCE WITH THE REFERENCED STANDARDS INCORPORATING THE MODIFICATIONS SHOWN ON THE DRAWINGS INTO THE WORK.

5. THE DRAWINGS IDENTIFIES MATERIALS BY GENERIC NAME. FOR A DESCRIPTION OF APPROVED MATERIALS AND INSTALLATION PROCEDURES SEE THE SPECIFICATIONS.

6. UNLESS OTHERWISE NOTED ON THE DRAWINGS OR IN THE SPECIFICATIONS THE SELECTION OF COLORS AND TEXTURES WILL BE FROM THE MANUFACTURER'S STANDARD FOR FINISH MATERIAL.

7. FOR SPECIFIC REQUIREMENTS REGARDING INSTALLATION OF BATT INSULATION SEE THE SPECIFICATIONS.

8. THE NOTES DESCRIBING THE SCOPE OF REQUIRED BUILDING REPAIRS ARE INTENDED AS A GUIDE TO OUTLINE THE NATURE AND EXTENT OF THE WORK. OTHER PARTS OF THE CONTRACT DOCUMENTS, INCLUDING THE DRAWINGS AND SPECIFICATIONS, MAY SHOW AND/OR REFERENCE WORK NOT INCLUDED IN THE NOTES. THE CONTRACTOR SHALL VISIT THE SITE AND EXAMINE THE CONDITIONS THERE AND THOROUGHLY ACQUAINT HIMSELF WITH ITS OBSTACLES AND ADVANTAGES FOR PERFORMING THE WORK, AND CAREFULLY REVIEW ALL DRAWINGS AND SECTIONS OF THE SPECIFICATIONS AS THERE ARE REQUIREMENTS SHOWN ON THE DRAWINGS AND CONTAINED IN THE SPECIFICATIONS THAT SIGNIFICANTLY AFFECT THE SCOPE OF WORK AS OUTLINED IN THESE NOTES. NO ADDITIONAL CHARGE(S) WILL BE ALLOWED FOR WORK CAUSED BY THE CONTRACTOR'S UNFAMILIARITY WITH THE SITE, AND THE DRAWINGS AND SPECIFICATIONS, OR FAILURE OF THE ARCHITECT TO ENUMERATE THE COMPLETE SCOPE OF REQUIRED REPAIRS, AS REQUIRED BY THE CONTRACT DOCUMENTS, IN THE ACCOMPANYING NOTES.

9. REFERENCE TO SPECIFICATION SECTIONS IN THE NOTES DESCRIBING THE SCOPE OF REQUIRED REPAIRS OR NEW WORK ARE INTENDED AS A GUIDE ONLY AND TO ASSIST THE CONTRACTOR IN UNDERSTANDING THE COMPLETE SCOPE OF THE WORK. IT IS ASSUMED THAT OTHER SECTIONS OF THE SPECIFICATIONS THAT ARE NOT REFERENCED MAY CONTAIN REQUIREMENTS AFFECTING THE WORK.

10. SEE DIVISION 1 FOR SPECIFIC REQUIREMENTS RELATED TO PATCHING OF EXISTING CONSTRUCTION.

DRAWING LIST

LEGEND

(1.I) REFERENCES SCOPE AND NOTES INTERIOR RENOVATIONS

(1.E) REFERENCES SCOPE AND NOTES EXTERIOR RENOVATIONS

(1.R) REFERENCES SCOPE AND NOTES ROOF RENOVATIONS

(1.D) REFERENCES SCOPE AND NOTES DEMOLITION WORK

DETAIL OR SECTION REFERENCE

07110.10 MATERIAL NOTE
- NOTE NUMBER
- SPECIFICATION SECTION REFERENCE

SITE PLAN

BUILDING DATA

BUILDING TYPE	TYPE VN, SPRINKLERED
OCCUPANCY	AUDITORIUM, A3 REMAINDER, B2

RECORD DRAWINGS - NOTES AND LEGEND

1. THE DRAWINGS HAVE BEEN ANNOTATED TO REFERENCE RELEVANT CONTRACTOR SHOP DRAWINGS AND PRODUCT DATA SUBMITTALS, SUPPLEMENTAL AND REVISED DETAILS ISSUED DURING THE CONSTRUCTION PHASE, AND OTHER INFORMATION CONTAINED IN THE PROJECT RECORD BUT NOT SHOWN ON THE DRAWINGS. INFORMATION CONTAINED ON THE REFERENCED DOCUMENTS HAS NOT BEEN TRANSFERRED TO THE DRAWINGS.

2. THE RECORD DRAWINGS DATED 4-1-93 ARE NOT "AS BUILT" DRAWINGS. IN THE PREPARATION OF THESE RECORD DRAWINGS NO ATTEMPT HAS BEEN MADE TO VERIFY THAT CONDITIONS AS DEPICTED ON THE DRAWINGS CORRESPOND TO ACTUAL BUILT CONDITIONS, AND NO ATTEMPT HAS BEEN MADE TO VERIFY THAT ITEMS SHOWN ON CONTRACTOR'S SUBMITTALS ARE ACTUALLY INSTALLED AS DESCRIBED ON THE SUBMITTAL DATA.

(SK-6/A2) SUPPLEMENTAL SKETCH NUMBER
RELATED DRAWING NUMBER

(7a/S4.2) SUPPLEMENTAL OR REVISED DETAIL
DRAWING NUMBER FOR ORIGINAL DETAIL OR RELATED DETAILS

SDT-11 INDICATES SHOP DRAWING TRANSMITTAL NUMBER

RFI-11 INDICATES REQUEST FOR INFORMATION NUMBER

XXXXXX INDICATES OTHER NOTES ADDED FOR RECORD DRAWINGS

CITY OF MILPITAS
MILPITAS SENIOR CENTER
Repair and Restoration Project
Phase 2
Project 3368

DATE	ACTION	CHECKED
12/4/91	issued for bid set	J G
10/17/91	BLDG. INSP. DIV. REVIEW	J G
7/17/91	CLIENT APPROVAL	J G

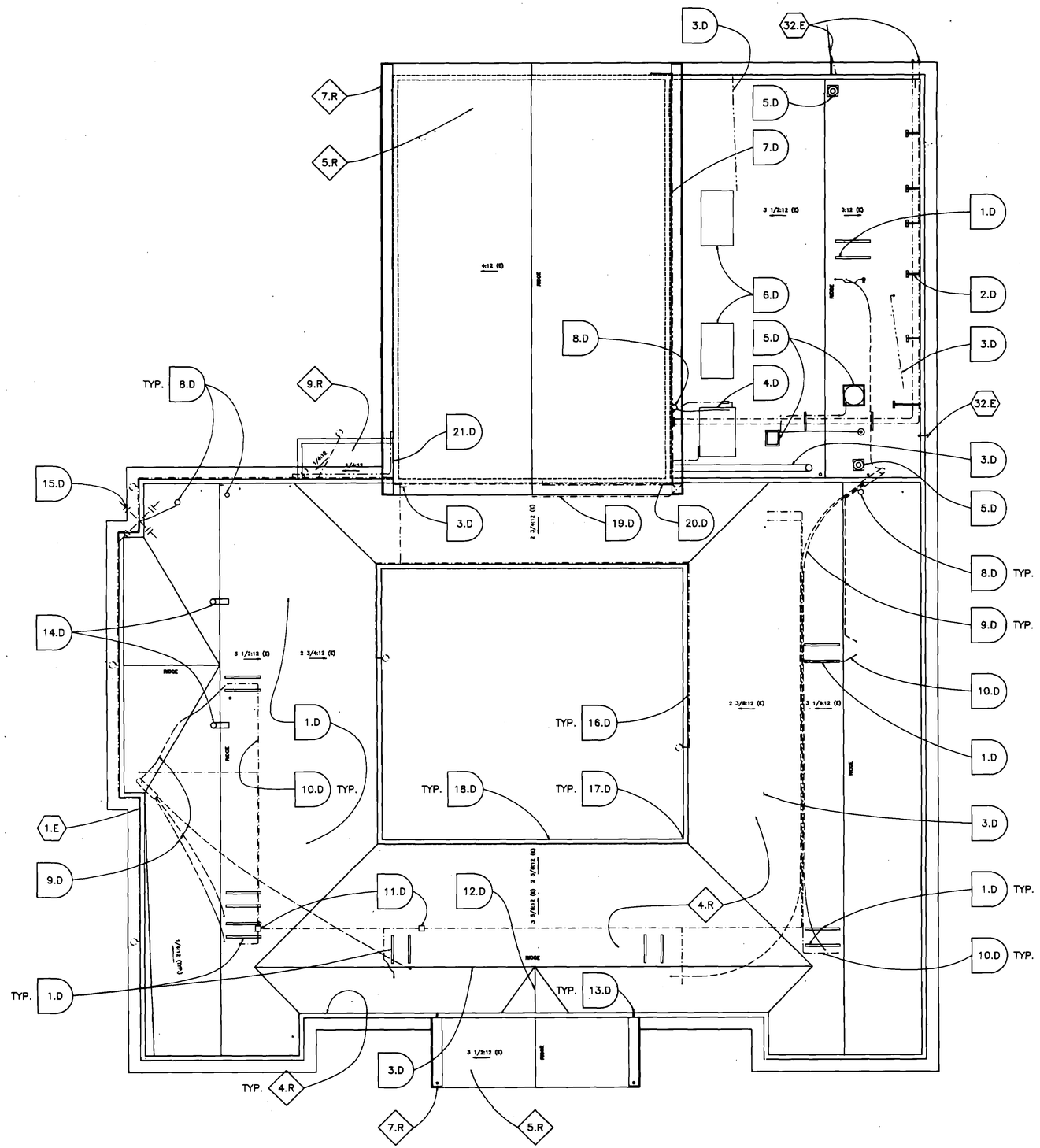
TITLE SHEET

DRAWN J G | DATE 7/17/91
CHECK J G | JOB NO. 0628 010
SHEET 101

2-913 1 of 24

A-1
2/24

2-9/3



SCOPE AND NOTES, DEMOLOTION WORK

General: For related notes and additional work related to the scope of work depicted on this drawing, see the entire project drawings and specifications.

1.D Remove all existing wood sleepers set in mastic on the existing roof.

2.D Remove existing supports under existing electrical conduits (2). Temporarily support the existing conduits until new supports are installed.

3.D Remove all existing abandoned pipes, ducts, other miscellaneous mechanical items, and supports. Cap existing pipes, and ducts at parapet or in the interior of the building if required.

4.D Remove and protect the existing HVAC Unit for future reinstallation at a new location. Remove existing wood support framing, ducts. Temporarily cap ducts and electrical conduit as required.

Relocate existing electric conduit stub-ups through the roof and relocate existing associated disconnect switches. Reconnect power, interlock, and control wiring.

5.D Remove and protect existing mechanical equipment (cooler, exhaust hood, etc.) for future reinstallation. Temporarily cap ducts and electrical conduit as required. See note 4.D for related electrical work.

6.D Remove existing skylights and curbs.

7.D Remove existing wood windows on south side of Auditorium and wood framing as required to install new wood windows.

8.D Existing roof vents shall remain and be protected from damage.

9.D Remove existing freon lines. See Sheet M-1.

10.D Remove all existing electrical conduit and wood supports. Removed cable and conduit shall not be reused.

All existing electrical conduits that are now running on top of the existing roof shall be relocated, unless otherwise noted, below the existing roof and shall be routed in the attic space or above the acoustical ceiling tile. Unused electrical conduits and stub-outs shall be removed. Remove all unused existing electrical equipment and devices, unless otherwise noted on the drawings.

The existing fan coil units are fed by branch circuit wiring which is located on top of the existing roof. The branch circuit wiring conduits traverse the top of the existing roof and drop down through the roof at locations adjacent to refrigeration piping drops. This branch circuit wiring shall be removed and new branch circuit wiring shall be installed in the attic space or above the acoustical ceiling tile. Reconnect power, interlock and control wiring to existing conduits inside the building.

11.D Remove existing panel boxes. See Note 10.D.

12.D Remove existing small cricket and ridge.

13.D Remove existing drain scuppers.

14.D Remove existing metal ducts, fans, and wood supports.

15.D Remove the existing TV antenna and reinstall after completion of all roofing work. Provide new supports as required.

16.D Remove the existing electrical conduit. See notes regarding exterior work.

17.D Remove all existing drains, scuppers, and downspouts.

18.D Remove existing cement plaster on parapet walls.

19.D Existing electrical conduit to remain.

20.D Existing gas line to remain. Existing gas service piping bonding to electrical service ground shall remain.

21.D Existing sprinkler line to remain.

PROJECT NORTH

1"=8'

0 4 8 20 FEET

RECORD DRAWING
4-1-93

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CITY OF MILPITAS
MILPITAS SENIOR CENTER
Repair and Restoration Project
Phase 2
Project 3368

	J.G	CHECKED
	BLDG. INSP. DIV. REVIEW	ACTION
10/17/91		DATE

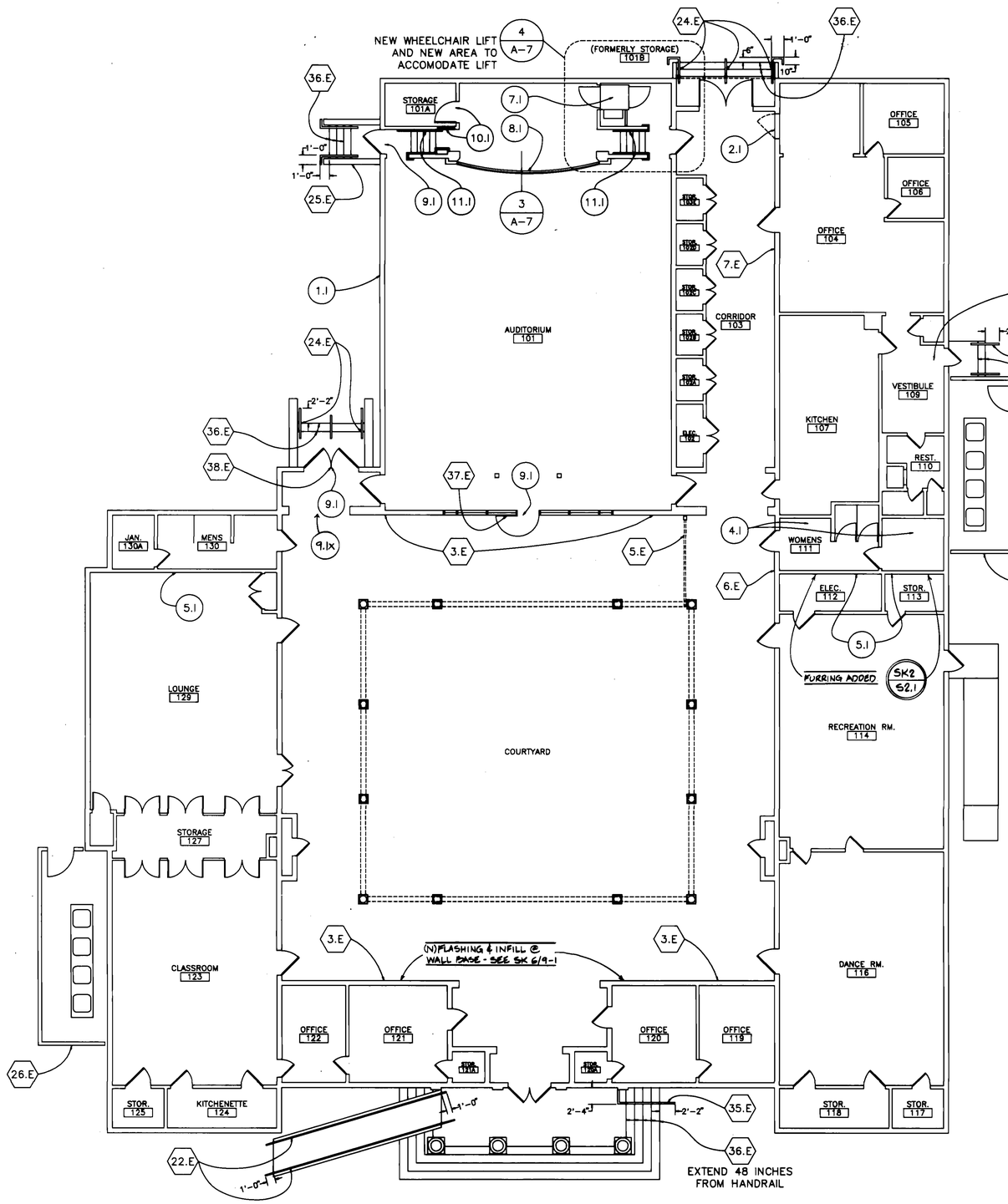
DEMOLITION PLAN

DRAWN J.G	DATE 10/17/91
CHECK J.G	JOB NO. 0620.010
SHEET A-1	

2 - 913

A-2
3/24

2-913



SCOPE AND NOTES, INTERIOR RENOVATIONS

1.I Patch and prepare exterior and interior surfaces of existing wood windows not noted to be replaced in Room 101, Auditorium. Paint existing exterior and interior surfaces of existing wood windows. Replace broken glass and repair glazing sealant as required. See specification Sections 08800 GLAZING and 09900 PAINTING.

2.I Remove existing door and frame to Room 104, Office. Reframe existing opening with 2 x 4 wood studs. Provide new interior and exterior finishes as required to match existing exterior and interior walls. Add floor base at interior as required to match existing. Patch and prepare existing walls for painting as required. Paint exterior wall where new finish has been provided and entire surface of wall in Room 104, Office, where new finishes have been installed. See specification Sections 02060 DEMOLITION, 06100 ROUGH CARPENTRY, 09220 CEMENT PLASTER, and 09900 PAINTING.

3.I Repair and patch existing walls as required to prepare for painting in Room 109, Vestibule. Paint existing walls and trim in Room 109, Vestibule. See specification Section 09900 PAINTING.

4.I Install ~~2~~ ONE new light fixtures in Room 111, Womens Toilet, over the existing lavatories. Light fixtures shall be Lightolier "Lumiframe II", #10477, matte white with 2-40W lamps. Height of new light fixture over lavatories shall be 6'-6" above finished floor. Install 1 new light fixture in Room 111, Womens Toilet, in the existing handicapped stall. Light fixture shall be Lightolier "Lumiquad", #6783, light white with compact fluorescent lamp. See DIVISION 16 of the specifications. SEE SDT-5 (2&3)

5.I Remove existing finishes as required by structural work. Provide new gypsum wallboard and paint finish. Provide new bases to match existing. See specification Sections 02060 DEMOLITION, 09250 GYPSUM BOARD CONSTRUCTION, 09900 PAINTING, and DIVISION 1.

6.I Electrical Work:

All conduits in new construction shall be installed concealed, unless otherwise noted. If new conduits, boxes, devices, etc. are to be installed on existing construction, exposed installation is allowed to match existing.

Where existing outlets are shown to remain, the contractor shall provide extension collars as required. Install new conduit and wiring where needed to maintain continuity of existing circuits.

The exact location of conduit stub-ups, outlet box locations, etc. for equipment shall be coordinated with equipment requirements.

7.I Provide new wheel chair lift in existing Room 101B, Storage as follows:

Remove existing stage level floor and floor joists in Room 101B. Remove shelving, closet poles and similar items. Remove existing door to upper stair landing. Remove existing finishes and wall framing at new openings to stage and lower stair landing.

Provide new wood studs at removed door. Provide additional studs and other framing as required to support edge of stage floor, wheel chair lift fascia panel, and new wall finish from main floor level to stage floor level. Provide 4 x 6 (minimum) headers and studs as required to frame new openings. Provide framing for ramp to new wheel chair lift. Install new 1/2" exterior grade plywood over existing diagonal floor sheathing, Douglas Fir, 15/32 5-ply CDX, PSI-83.

Relocate electrical convenience outlet at new opening to stage as shown on Drawings. Relocate light switch for Room 101B as shown on Drawings unless existing light is switched at panel only.

Provide new thermal insulation at exterior walls.

Provide new interior wall finish below stage level and at removed door to match existing wall finish. Patch and prepare existing walls for painting as required. Submit proposed wall finish and patching materials and methods to Owner and/or Architect for review.

At new openings provide wood casing and trim to match existing adjacent openings at stage and lower stair landing.

Provide 1/4" (minimum) underlayment and new 1/8" gauge sheet vinyl resilient floor finish similar to existing Auditorium floor finish. Install underlayment and resilient flooring in accordance with Resilient Floor Covering Institute Standard Specifications. Difference in level between new and existing finish floor shall not exceed 1/4". Provide suitable transition strip where new floor joins existing. Submit manufacturer's literature and samples of flooring materials to Owner and/or Architect for review.

Install wood floor base to match existing wood base in auditorium and stair landing.

Paint all walls in Room 101B and entire east wall of adjacent stairwell, 2 coats minimum.

Provide new electrically operated vertical wheelchair lift, "Porch-lift" PL-S50 as manufactured by ~~American Stair Glide Corporation.~~ Provide with top landing gate, platform gate, access ramp, vertical fascia, and call-send controls for top and bottom landings. Controls shall have emergency stop buttons and shall be interlocked so that lift will not operate if either gate is open. Provide base modifications and anchors as required for installation on wood floor. Furnish and install in accordance with details on Drawings and manufacturer's specifications. Provide junction box(es) and power as required from existing panel in adjacent stairwell. Provide dedicated circuit for wheel chair lift equipment. Submit shop drawings for review by Owner and/or Architect. NATIONAL WHEELO-VATOR CO., SEE SDT-9B

See specifications Sections 02060 DEMOLITION, 06100 ROUGH CARPENTRY, 06200 FINISH CARPENTRY, 07200 BUILDING INSULATION, 09900 PAINTING, DIVISION 16 ELECTRICAL and DIVISION 1.

8.I Provide new Poplar or Birch wood curb and trim at edge of stage as shown on Drawings. Remove existing metal trim and resilient flooring as required to install new curb. Paint curb to match existing woodwork. Provide vinyl inside cove moulding, Mercer No. 655 or approved equal. See specifications Sections 06200 FINISH CARPENTRY and 09900 PAINTING.

9.I Remove existing exit signs and switches and provide new exit signs with back-up batteries at exit doors where indicated. New exit signs shall not be switched. Provide Hubbell "Freedom Series LED" exit signs as follows: Signs shall be illuminated by green light emitting diodes (LED), AC powered with sealed lead acid battery back-up for two hours minimum. Provide flasher, beeper and dual rated 120/277 volt primary connections. Housing shall be black with a .125" thick clear polycarbonate panel over the face plate. Units shall be UL listed with minimum 5 year warranty. See specifications DIVISION 16 ELECTRICAL. SEE SDT-5(4) 9.Ix EXIT LIGHT ADDED, NO MFR. DATA

10.I Remove existing door and trim, and install a new door at Storage 101A. Provide new wood framing, and new wall finish and base to match the existing wall finishes to fill in the opening. Remove existing wall finish and framing as required to install a new door at the stage. Provide new wood framing as required to frame the new opening for the new door. Relocate existing electrical outlet and patch wall as required at new door opening.

Install new 3'-0" x 6'-8" door and frame to match removed door. New door shall conform to applicable AWI or WIC standards, minimum grade custom. Provide new door frame and trim to match existing. Patch existing resilient flooring as required. Paint entire east and west walls of north stairwell, entire west wall of south stairwell, entire west and south walls of Room 101A, and entire north and south walls of stage, 2 coats minimum at previously painted areas. Door hardware shall be as follows:
Lock: Schlage D Series with "Olympiad" lever.
Cylinder: As directed by the Owner to match the existing keying system.
Hinges 1 1/2 pair butts, full mortise.
Closer: LCN delayed action 4041 "Super Smoothee".

Submit shop drawings for review by Owner and/or Architect. See specifications Sections 02060 DEMOLITION, 06100 ROUGH CARPENTRY, 06200 FINISH CARPENTRY, 09900 PAINTING, DIVISION 16 ELECTRICAL and DIVISION 1.

11.I Provide new handrails at north and south stage stairways as follows: Remove existing handrails and brackets. Remove existing exposed electrical conduit, wiring, and light fixture at south stairway. Patch and prepare walls as required. Install new bronze (CDA 385) handrails and handrail brackets on both sides of both existing stairways at the stage. Handrail mouldings shall be similar to Julius Blum & Co., Inc. 4531 except maximum width shall be 1 1/2 inches to comply with ADA requirements. Handrail wall brackets shall be located a maximum of 32 inches apart and shall be of a decorative type approved by the Owner and/or the Architect. Install handrails to maintain 1 1/2 inch clearance between handrail moulding and walls and/or wood trim. Bend handrail around panelboard as required at north stairway. Return ends to wall.

SEE SDT-33

12.I PROVIDE NEW THERMAL INSULATION OVER ALL INTERIOR SPACES. SEE 07200 BUILDING INSULATION. SEE SDT-8

PROJECT NORTH

1"=8'

0 4 8 20 FEET

RECORD DRAWING
4-1-93

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CITY OF MILPITAS
MILPITAS SENIOR CENTER
Repair and Restoration Project
Phase 2
Project 3368

DATE	ACTION	CHECKED
3/5/92	REVISION #2	
2/4/92	REV. #1, ADDENDUM #1	
10/17/91	BLDG. INSP. DIV. REVIEW	
7/17/91	CLIENT APPROVAL	

FLOOR PLAN

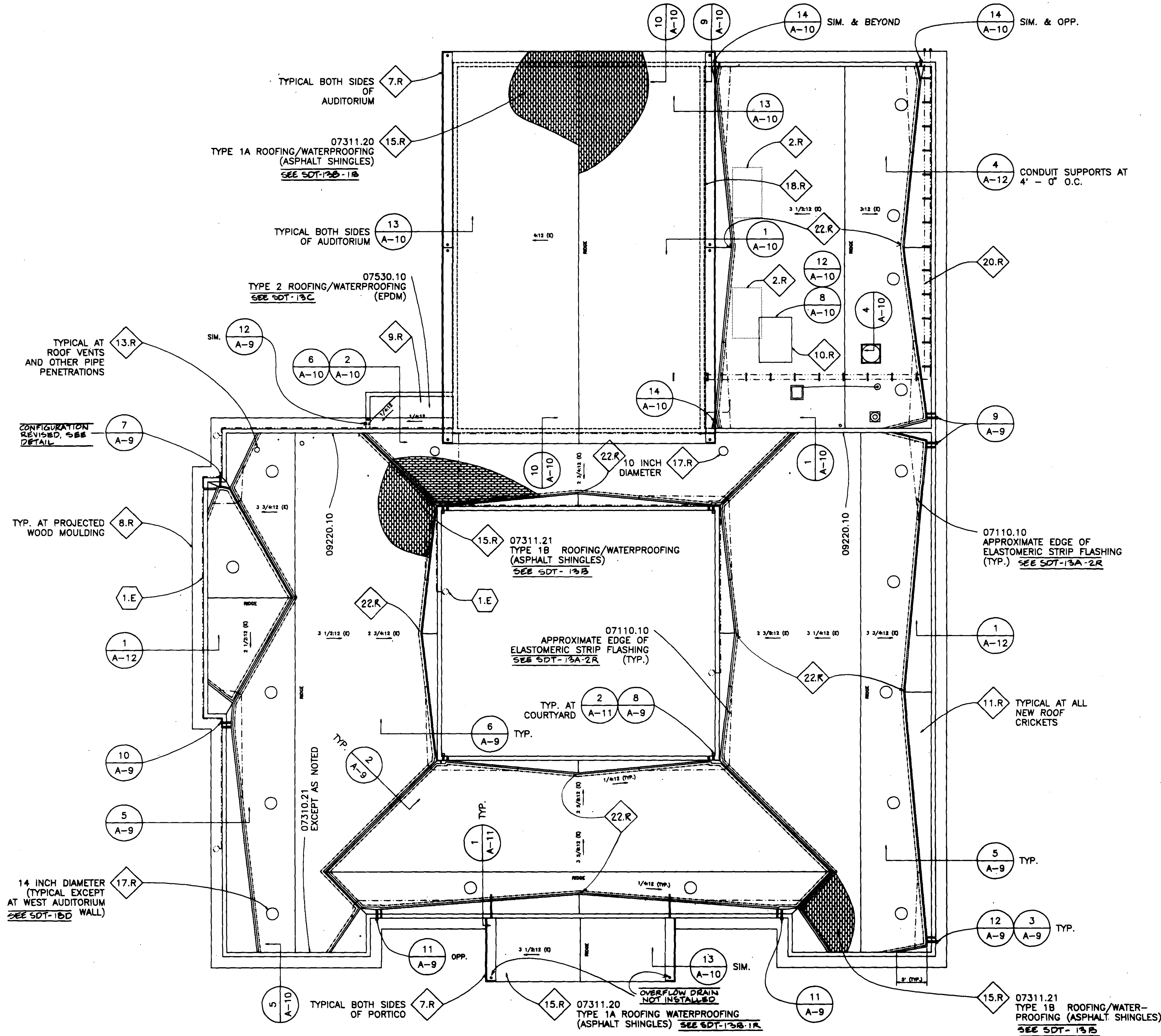
DRAWN
DATE 7/17/91
CHECK
JOB NO.

SHEET A-2

2-913

A-3 4/24

2-9/3



SCOPE AND NOTES, ROOF RENOVATIONS

1.R Remove existing loose material, and unused and abandoned items as shown on the drawings and specified. See specification Section 02060 DEMOLITION.

2.R Remove existing skylights. Install new roof framing and sheathing over existing skylight openings (see structural drawings). Frame existing skylight openings, top and bottom, with 2 x 6 wood joists at 16 inches on center. Use joist hangers to attach new wood joists to existing wood wall framing or new rim joists. See specification Sections 02060 DEMOLITION and 06100 ROUGH CARPENTRY.

3.R Remove and/or protect existing mechanical equipment, electrical conduit and/or equipment, and other items scheduled to remain or be reinstalled as shown on the drawings. See specification Section 02060 DEMOLITION.

4.R Remove existing built-up roofing material as asbestos containing material as shown on the drawings. See specification Section 02071 ASBESTOS ABATEMENT.

5.R Remove existing asphalt shingles at front entry portico roof and at gable roof over the auditorium. See specification Section 02060 DEMOLITION.

6.R Remove existing roof sheathing, perform structural repairs, and install new plywood sheathing. See structural drawings.

7.R Remove existing gutters and deteriorated exterior wood moldings at gable roof over auditorium and at front entry portico roof. Install new wood mouldings, trim, and associated wood fabrications to match existing including the wood soffit under the gutters. Install new sheet metal gutters as shown on the drawings. See specification Sections 02060 DEMOLITION, 06200 FINISH CARPENTRY, and 07600 FLASHING AND SHEET METAL.

8.R *Remove existing roof material* at projecting wood trim as asbestos containing material as shown on the drawings. See specification Section 02071 ASBESTOS ABATEMENT. Repair or replace existing wood framing, wood mouldings, trim, and associated wood fabrications (including underside of projecting wood trim) as required and shown on the drawings. Install new Type 2 ROOFING/WATERPROOFING (EPDM) at projecting wood trim as shown on the drawings. See specification Sections 02060 DEMOLITION, 06200 FINISH CARPENTRY, 07530 ELASTOMERIC ROOFING, and 07600 FLASHING AND SHEET METAL.

9.R Remove existing roofing and sheathing over rear entry at north side of auditorium as asbestos containing material as shown on the drawings. See specification Section 02071 ASBESTOS ABATEMENT. Install new wood framing as required to achieve drainage pattern as shown on the drawings. Install new Install new Type 2 ROOFING/WATERPROOFING (EPDM), flashings, and other sheet metal fabrications as shown on the drawings and required. Repair cement plaster as required. See specification Sections 02060 DEMOLITION, 07530 ELASTOMERIC ROOFING, 07600 FLASHING AND SHEET METAL, AND 09225 PORTLAND CEMENT PLASTER REPAIR.

10.R Install new mechanical equipment support framing as shown on the drawings. See the Structural Drawings. SEE SDT-12

11.R Install new wood framing and plywood sheathing for new roof crickets as shown on the drawings. See specification Section 06100 ROUGH CARPENTRY.

12.R Install new mechanical equipment curbs and supports for roof mounted equipment and conduit as required. See Section 06100 ROUGH CARPENTRY and other applicable sections of the specifications. Provide new supports at parapet wall for existing electrical service conduit as shown on the drawings. Provide new supports for electrical service conduit at roof. Electrical service conduit supports at roof shall sit on wood sleepers set in roofing cement. Do not bolt through roofing material. See applicable *Sections of the* specifications and sheet M–1.

13.R Install new sheet metal scuppers, rain water leaders, flashings, and other sheet metal fabrications at roofs and exterior walls as shown on the drawings. Work includes providing sheet metal fabrications for pipe penetrations, vent piping, and other miscellaneous items projecting through the roof, new crickets, and exterior walls not specifically indicated in these notes or other parts of the contract documents. Reframe scupper, overflow scupper, and other openings in existing walls as required, and coordinate flashing of openings with adjacent exterior finishes. See specification Section 07600 FLASHING AND SHEET METAL for general requirements for all sheet metal flashing work. See other applicable sections of the specification for related work. SEE SDT 18 & 18A

14.R Install new attic insulation. See specification Section 07200 BUILDING INSULATION.

15.R Install new Type 1A ROOFING/WATERPROOFING (asphalt shingles and Type 1B ROOFING/WATERPROOFING as shown on the drawings. See specification Sections 07110 WATERPROOF MEMBRANE and 07310 ASPHALT SHINGLES.

16.R Reinstall and reconnect mechanical equipment as required and shown on the drawings. See DIVISION 15 and 16. Reset the existing AC unit at its new location on new a structural base with vibration mounts as shown on the drawings. Reconnect to existing HVAC system using new supply and return lined ducts, sized to match the existing. Provide new conduit and wiring as required to reconnect electrical systems.

17.R Install new roof ventilators as shown on the drawings. See DIVISION 15. SEE SDT-18D

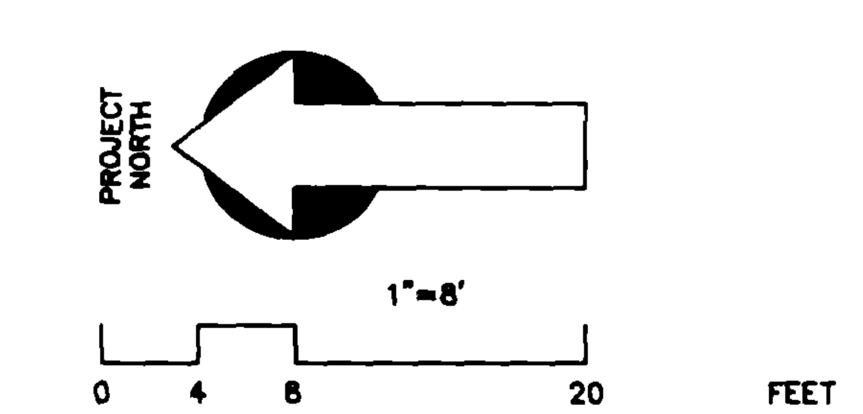
18.R Remove existing wood windows at south side of auditorium above the existing roof. Install new wood windows as shown on the drawings. Install new flashings and patch existing cement plaster finish as required. See specification Sections 02060 DEMOLITION, 07600 FLASHING AND SHEET METAL, 08610 WOOD WINDOWS, and 09925 PORTLAND CEMENT REPAIR. SEE SDT-2

19.R Remove existing refrigerant piping. Install new refrigerant piping as shown on the drawings. See sheet M–1 and DIVISION 15 of the specifications.

20.R Relocate existing electrical services (conduit and wiring) as shown on the drawings. See DIVISION 16 of the specifications.

21.R INSTALL NEW GALV. STEEL FLASHING AT GABLE END PROJECTED TRIM. SEE SKETCH SK 7/17-1

22.R FLEXIBLE NEOPRENE EXPANSION JOINT. SEE SDT-13A-1



RECORD DRAWING 4-1-93

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151 Townsend Street
San Francisco, CA 94107
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CITY OF MILPITAS
MILPITAS SENIOR CENTER
Repair and Restoration Project
Phase 2
Project 3368

DATE	ACTION	CHECKED
7/17/91	CLIENT APPROVAL	J.G
10/17/91	BLDG. INSP. DIV. REVIEW	J.G
12/4/91	[signature]	

ROOF PLAN

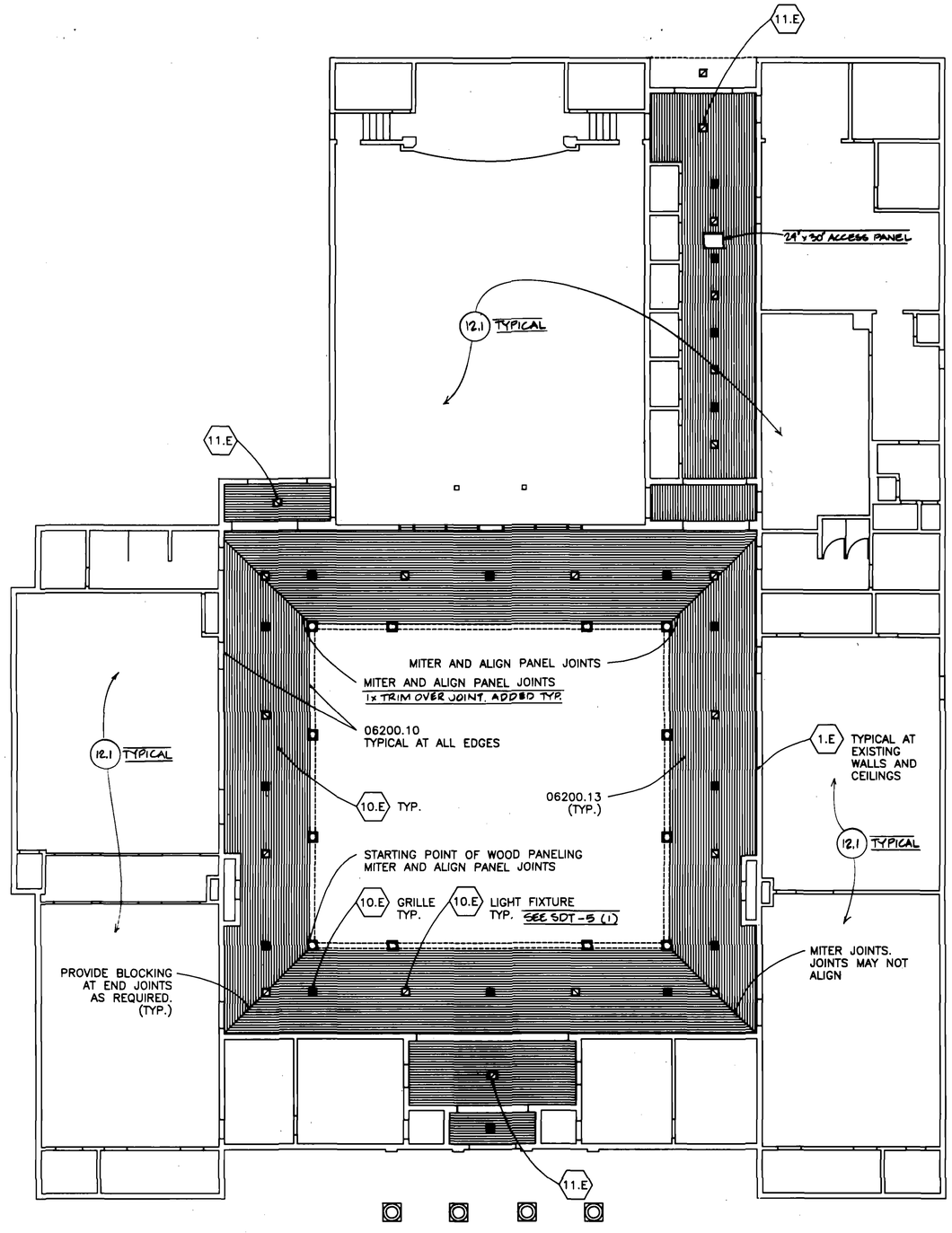
DRAWN J.G	DATE 7/17/91
CHECK J.G	JOB NO. 0620.010
SHEET	A-3

A-4
5/24

2-9/3

SCOPE AND NOTES, CEILING RENOVATIONS

See other Sheets for applicable notes.



PROJECT NORTH

1"=8'

0 4 8 20 FEET

RECORD DRAWING
4-1-93

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DATE	ACTION	CHECKED
10/17/91	BLDG. INSP. DIV. REVIEW	J.G
7/17/91	CLIENT APPROVAL	J.G

REFLECTED CEILING PLAN
COURTYARD AND CORRIDOR

DRAWN J.G	DATE 7/17/91
CHECK J.G	JOB NO. 0620.010
SHEET A-4	

2 - 9/3

SCOPE AND NOTES, EXTERIOR RENOVATIONS

1.E Remove existing conduit and wiring on exterior walls as shown on the drawings and specified. Install new conduit and wiring on inside face of parapet wall as required. Reinstall existing light fixtures as required. See specification Sections 02060 DEMOLITION and DIVISION 16.

2.E Remove existing cement plaster above existing projected wood mouldings to top of parapet at exterior north, east, south, and west walls as shown on the drawings. After installation of new roofing and flashings (see notes regarding roofing work) install new cement plaster finish. Install new parapet coping (cap flashing) as shown on the drawings. Paint cap flashing and all new cement plaster work. See specification Sections 02060 DEMOLITION, 07600 FLASHING AND SHEET METAL, 09220 CEMENT PLASTER and 09900 PAINTING.

3.E Remove existing cement plaster finish at existing east and west courtyard walls next to existing auditorium window wall and entry, and outside offices 119, 120, 121, and 122 as required by new structural work. Provide new cement plaster finish. See specification Sections 02060 DEMOLITION, 09220 PORTLAND CEMENT PLASTER, and 09225 PORTLAND CEMENT PLASTER REPAIR.

4.E Remove existing glazing at existing auditorium window wall. Replace with 1/4" thick tempered glass. Provide new exterior and interior wood chair rail as shown on the drawings. Paint exterior and interior of existing auditorium window wall and new chair rails. See specification Sections 02060 DEMOLITION, 06200 FINISH CARPENTRY, 08800 GLAZING, and 09900 PAINTING.

5.E Remove existing concrete paving as required by new footings that are part of the structural work at the auditorium courtyard wall. Install new concrete paving to match existing after completion of structural work. Remove existing concrete paving near auditorium courtyard wall as required, and install new trench drain as required by roof drainage. New trench drain shall be cast iron trench assembly with grated cover and shall be installed so that outlet is ? inch above courtyard paving. Excavate area around new trench drain and provide a new concrete footing for the trench drain. Patch existing concrete paving as required. See specification Sections 02060 DEMOLITION, 03300 CAST-IN-PLACE CONCRETE, and 05500 METAL FABRICATIONS. SEE SDT-31

6.E Texture existing concrete paving one foot around existing drinking fountain near Room 110, Womens. Remove the existing drinking fountain and install a new drinking fountain meeting the requirements for access by the physically disabled. Drinking fountain shall be Elkay Model LHFE-8-S (stainless steel) and installed in accordance with the manufacturer's written recommendations. Fasten to existing wall construction securely and provide blocking as required by mounting brackets. Adjust existing plumbing as required. Patch and paint existing cement plaster wall as required. See specification Sections 09225 PORTLAND CEMENT PLASTER REPAIR and 09900 PAINTING. SEE SDT-32

7.E Remove existing cement plaster finish at existing south wall in Room 103, Corridor. Provide a new cement plaster finish after completion of structural repairs. (See structural drawings for required repairs.) Paint new cement plaster wall. See specification Section 02060 DEMOLITION, 09229 CEMENT PLASTER and 09900 PAINTING.

8.E Remove existing soffits (including substrate wood paneling) and light fixtures at courtyard and exterior corridor at rear of building (Room 103). Protect existing conduit, junction boxes etc. serving existing light fixtures from damage.

9.E Remove existing cement plaster finish and substrate in existing skylight openings in soffit of Room 103, Corridor. Frame existing skylight openings in soffit of Room 103, Corridor, with 2 x 6 wood joists at 16 inches on center. Use joist hangers to attach new wood joists to existing wood wall framing or new rim joists. New wood framing shall is intended as support for new wood soffit. Adjust existing sprinkler system in existing skylight openings as required to provide protection of new soffit areas. Obtain approval of City of Milpitas Building Inspection Division for revised sprinkler layout. See specification Section 02060 DEMOLITION, and 06100 ROUGH CARPENTRY.

10.E Install new wood paneling at all soffits where existing soffits have been removed. Provide new wood furring as required to attach new wood paneling to existing wood soffit framing. Provide new wood trim at all intersections and junctures with existing walls and columns. Patch existing cement plaster walls as required. Install new ventilation grilles as shown on the drawings. Install new lighting fixtures where existing lighting fixtures have been removed and additional new light fixtures as shown on the drawings. Light fixtures shall be recessed square with drop opal lens, Devine Lighting D420-A22-INC with 200W/MED/A lamps. Provide new wiring etc.. Paint all new wood paneling and trim. See specification Sections O2060 DEMOLITION, 06200 FINISH CARPENTRY, 09220 PORTLAND CEMENT PLASTER REPAIR, 09900 PAINTING, DIVISION 15, and DIVISION 16000. SEE SDT-6(1)

11.E Install new wood paneling at the soffit, ventilation grilles, and light fixtures in Room 103, Corridor, and at front entry as shown on the drawings. See Note 10.E.

12.E Remove existing wood columns at courtyard. After completion of structural work, install new wood columns to match profile and size of existing. Provide new watertight sheet metal cover flashings at top of new wood columns. Paint new wood columns and flashing. See specification Sections 02060 DEMOLITION, 06200 FINISH CARPENTRY, 07600 FLASHING AND SHEET METAL, and 09900 PAINTING. SEE SDT-27

13.E Remove existing cement plaster above columns on both sides of existing courtyard walls where it has not already been removed. Provide a new cement plaster finish after completion of structural repairs. See structural drawings for required repairs. Install new sheet metal coping (cap flashing) as shown on the drawings. Prepare for painting and paint all courtyard walls (including windows, doors, and door frames), exterior walls in alcoves at entry, Corridor 103 walls, and sheet metal work. See notes 2.1 and 7.E for additional work in this area. See specification Sections 02060 DEMOLITION, 07600 FLASHING AND SHEET METAL, 09220 CEMENT PLASTER, 09225 PORTLAND CEMENT PLASTER REPAIR, and 09900 PAINTING.

14.E Remove existing cement plaster at roof side of parapet walls. Install new exterior finishes, and paint if required, as shown on the drawings. See notes regarding roofing work. See specification Sections 02060 DEMOLITION, 07311 ASPHALT SHINGLES, 09220 CEMENT PLASTER, and 09900 PAINTING.

(REPAIRED IN PLACE)
15.E ~~Remove~~ existing decorative scrolls at top of existing exterior columns at front of building. ~~The general contractor has the option of either replacing the decorative scrolls with new scrolls to match the existing or to~~ have the existing scrolls repaired by a specialty subcontractor. If the general contractor selects to have the existing decorative scrolls repaired, see the specifications for specific repair requirements. Reinstall ~~new or~~ repaired decorative scrolls. ~~Flash top of decorative scrolls with new watertight sheet metal cover flashings.~~ See specification Sections 06200 FINISH CARPENTRY, and 07600 FLASHING AND SHEET METAL.

16.E Patch the existing columns at the front of the building as required to prepare for painting. Remove trim at square column bases, and repair and patch existing columns bases (See note 15.E). ~~Flash top of the square column bases with new watertight sheet metal cover flashings.~~ See specifications for specific repair requirements. See specification Sections 06200 FINISH CARPENTRY and 07600 FLASHING AND SHEET METAL.

(REPAIRED IN PLACE)
17.E ~~Remove~~ existing decorative scrolls at top of existing pilaster columns at front exterior wall of building. ~~The general contractor has the option of either replacing the decorative scrolls with new scrolls similar to the existing or to~~ have the existing scrolls repaired by a specialty subcontractor. If the general contractor selects to have the existing decorative scrolls repaired, see the specifications for specific repair requirements. See specification Sections 06200 FINISH CARPENTRY.

18.E Remove sufficient existing cement plaster finish at front of building to allow for installation of a new continuous metal flashings over existing decorative mouldings. Remove existing projecting bolts at existing cement plaster at front of building. Patch existing cement plaster as required. See specification Sections 02060 DEMOLITION, 07600 FLASHING AND SHEET METAL and 09225 PORTLAND CEMENT PLASTER REPAIR.

19.E Patch and repair existing decorative scrolls at side windows at front of building and fasten securely to existing building. See specification Sections 06200 FINISH CARPENTRY.

20.E Patch and prepare for painting all existing wood work at front of building including wood windows, mouldings, and decorative woodwork.

21.E Fabricate new wood planter boxes to match the existing at the front of the building. Fasten securely to building to match existing location. ~~The general contractor has the option of either replacing the existing planter boxes with new planter boxes similar to the existing or to have the existing planter boxes repaired by a specialty subcontractor. If the general contractor selects to have the existing planter boxes repaired, see the specifications for specific repair requirements. All~~ rotted or decaying wood shall be replaced, and all joints made tight. Provide new plywood covers for ~~existing or~~ new planter boxes. Provide new sheet metal flashings over the new plywood covers. Remove existing cement plaster above the existing planter boxes as required to install new stucco reglets. Patch and paint existing cement plaster as required. See specification Sections 06200 FINISH CARPENTRY, 07600 FLASHING AND SHEET METAL, and 09225 PORTLAND CEMENT PLASTER REPAIR.

REMOVE EXISTING & PROVIDE ALL NEW 1½"Ø O.D. HANDRAIL. SEE SDT-12
22.E ~~Cut ends of existing pipe handrail and ramp at front of building. Add new galvanized steel pipe sections to extend return ends 12" beyond the end of the ramp. New sections shall be welded to existing pipe handrail and all welds shall be ground smooth. Weld a continuous 1/4" by 2" galvanized steel flat bar to inside of existing pipe handrail vertical supports. Top of new flat bar shall be 4" above existing grade of ramp.~~ See specification Section 05500 METAL FABRICATIONS and 05520 HANDRAILS AND RAILINGS. & 09900 PAINTING

23.E Prepare all existing exterior finishes (wood, cement plaster, and sheet metal) at front of building for painting. Paint entire front of building. See specification Section 09900 PAINTING.

24.E ~~Cut ends of~~ REMOVE existing pipe handrail at exterior exit stairs at the NW and SE corners of the Auditorium. ~~Add new galvanized steel pipe sections to extend return ends as shown on the drawings. New sections shall be welded to existing pipe handrail and all welds shall be ground smooth.~~ Paint handrails. See specification Sections 05500 METAL FABRICATIONS, 05520 HANDRAILS AND RAILINGS, and 09900 PAINTING. SEE SDT-12. ALL NEW 1½"Ø O.D. RAIL.

25.E Remove existing concrete stairs and landings at exit stairs at the NE corner of the Auditorium and at Room 109, Vestibule. Install new concrete landings and handrails as shown on the drawings. Paint handrails. See specification Sections 02060 DEMOLITION, 03300 CAST-IN-PLACE CONCRETE, 05500 METAL FABRICATIONS, 05520 HANDRAILS AND RAILINGS, and 09900 PAINTING. SEE STD-12

26.E Install new mechanical equipment screens around existing equipment installed on the north and south sides of the buildings as shown on the drawings. Remove existing wire mesh fencing and posts as required to accommodate new equipment screens. ~~Provide new wire mesh gate and posts to match existing as required by new mechanical equipment screens.~~ Paint all exposed surfaces. See specification Sections 02060 DEMOLITION, 04220 CONCRETE UNIT MASONRY, 06200 FINISH CARPENTRY, and 09900 PAINTING, and DIVISION 3.

27.E Remove existing abandoned electrical conduit at base of north and east exterior walls of the building. Seal and patch holes as required. See specification Section 02060 DEMOLITION.

28.E Provide new wood outriggers to match existing at exterior wall of Room 114, Recreation Room, where existing wood outriggers are either missing or severely deteriorated. Provide sheet metal flashings at top of horizontal framing at shade screens on south wall of building. Paint new work to match existing. See specification Sections 06200 FINISH CARPENTRY, 07600 FLASHING AND SHEET METAL, and 09900 PAINTING.

29.E Install new circular redwood louvers with insect screens as shown on the drawings. Paint new louvers. See specification Section 06200 FINISH CARPENTRY and 09900 PAINTING.

30.E Install new site storm drainage system at perimeter of building as shown on the drawings. See sheets C-1 and C-2. See DIVISION 2 and DIVISION 3.

31.E Remove existing landscaping as required by work shown on sheets C-1 and C-2. Protect existing trees that remain from damage during construction, and adjust finished grades around entire perimeter of building as shown on sheets C-1 and C-2. See specification Section 02060 DEMOLITION AND REMOVAL.

32.E Existing service weatherheads and two service feeder conduits on top of the existing roof. Existing supports to be removed to facilitate installation of the new roof. Provide temporary supports as required. The conduits shall be permanently reinstalled on the new roof as shown on the drawings. Provide flashings as required. See speeification Sections 07600 FLASHING AND SHEET METAL and DIVISION 16.

33.E Electrical Work – General (applies to roof renovation work also):

a) All conduits in new construction shall be installed concealed, unless otherwise noted or existing conduit noted to be replaced is currently exposed. If new conduits, boxes, devices, etc. are to be installed on existing construction, exposed installation is allowed to match existing.

b) Where existing outlets are shown to remain, the contractor shall provide extension collars as required. Install new conduit and wiring where needed to maintain continuity of existing circuits.

c) The exact location of conduit stub-ups, outlet box locations, etc. for equipment shall be coordinated with equipment requirements.

34.E Install a new 30" x 30" access panel in the existing wall. See specification Section 08305 ACCESS DOORS.

35.E Install new pipe handrail at front entry. See specification Section 05520 HANDRAILS AND RAILINGS. SEE SDT-12

36.E Paint 2" wide contrasting strip at nosing of upper landing and each stair step where indicated on Drawings. Repaint strips where existing. Strip shall not be more than 1" from nose. See specification Section 09900 PAINTING. Paint shall comply with City of Milpitas and CAC (Title 24) requirements for stairway marking.

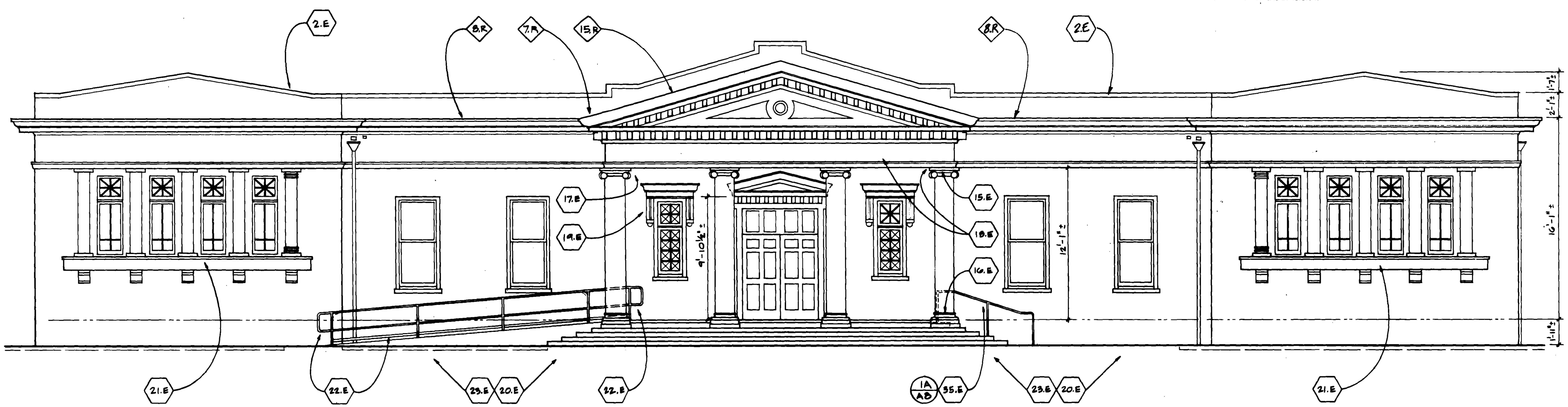
37.E Remove existing door and provide new door and hardware at west Auditorium entrance as follows:

Door: Glazed, wood rail and stile door similar to existing with 12" high bottom rail and 7" high intermediate rail as shown on Drawings. All glass shall be fully tempered. Door shall be similar to AWI Standard 1400, Stile and Rail Doors, Premium Grade. Prime and Paint door to match existing with exterior alkyd enamel, 1 coat primer and 2 finish coats minimum.
Exit Device: Von Duprin Series 88L with lever and key lock. Mount top of touch bar level with top of intermediate rail.
Cylinder: Match existing and keyed to existing system as directed by Owner.
Closer: LCN Delayed Action, 4041 "Super Smoothee".
Hinges: 1 1/2 pair butts, stainless steel, full mortise, concealed bearing type, 4 1/2 x 4 1/2.
Kick Plates: BBW or equal, 10" high each side.
Hardware Finish: Match existing finish on adjacent doors.
Threshold: Fill holes in existing wood threshold, prime and paint to match existing with epoxy modified acrylic latex floor paint, 2 coats minimum.

SEE SDT-3

See specifications Sections 06200 FINISH CARPENTRY, 08800 GLAZING, 09900 PAINTING and DIVISION 1.

38.E Provide new closers at existing pair of doors, LCN Delayed Action, 4041 "Super Smoothee". See specifications Sections 06200 FINISH CARPENTRY and DIVISION 1.



1/A5 WEST ELEVATION
1/4" = 1'-0"

RECORD DRAWING
4-1-93

GROSSMANN DESIGN GROUP
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CITY OF MILPITAS
MILPITAS SENIOR CENTER
Repair and Restoration Project
Phase 2
Project 3368

DATE	ACTION	CHECKED
2/4/92	REVISION #1, ADDENDUM #1	AS/JG
12/?/91	[illegible]	
10/17/91	Bldg Dept [illegible]	J.G.
7/17/91	ISSUED FOR CLIENT APPROVAL	JG

EXTERIOR ELEVATIONS - WEST

DRAWN	DATE
PG	7/17/91
CHECK	JOB NO.
JG	0620.010

SHEET A-5

A-6
7/84

2-913

2/A6 EAST ELEVATION
1/8" = 1'-0"

3/A6 NORTH ELEVATION
1/8" = 1'-0"

4/A6 SOUTH ELEVATION
1/8" = 1'-0"

RECORD DRAWING
4-1-93

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12/19/91	ISSUED FOR CLIENT APPROVAL	JG
10/17/91		JG
7/17/91	ISSUED FOR PERMIT	JG

EXTERIOR ELEVATIONS
EAST, NORTH, SOUTH

DRAWN PG
DATE 7/17/91
CHECK JG
JOB NO. 0620.010
SHEET A-6

A-7
8/24

2-913

1/A7 SOUTH AUDITORIUM @ ROOF
1/4" = 1'-0"

1A/A7 SE AUD. CORNER
1/4" = 1'-0"

3/A7 NEW CURB & TRIM @ EDGE OF STAGE
3" = 1'-0"

2/A7 WEST AUDITORIUM @ ROOF
1/4" = 1'-0"

4/A7 NEW WHEELCHAIR LIFT @ STAGE - PLAN
SEE SDT-95 (NATIONAL WHEELOVATOR)
1/4" = 1'-0"

6/A7 HANDRAIL DETAIL
1/2" = 1'-0"

5/A7 WHEELCHAIR LIFT SECTION & ELEVATION
1/4" = 1'-0"

RECORD DRAWING
4-1-93

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MILPITAS SENIOR CENTER
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Phase 2
Project 3368

DATE	ACTION	CHECKED
7/17/91	ISSUED FOR CLIENT APPROVAL	JG
10/17/91	Bldg Dept Submission	J.C
12/6/91	REVISION #1, ADDENDUM #1	AY&J/JG
2/24/92	REVISION #2	AY&J/JG
3/5/92		

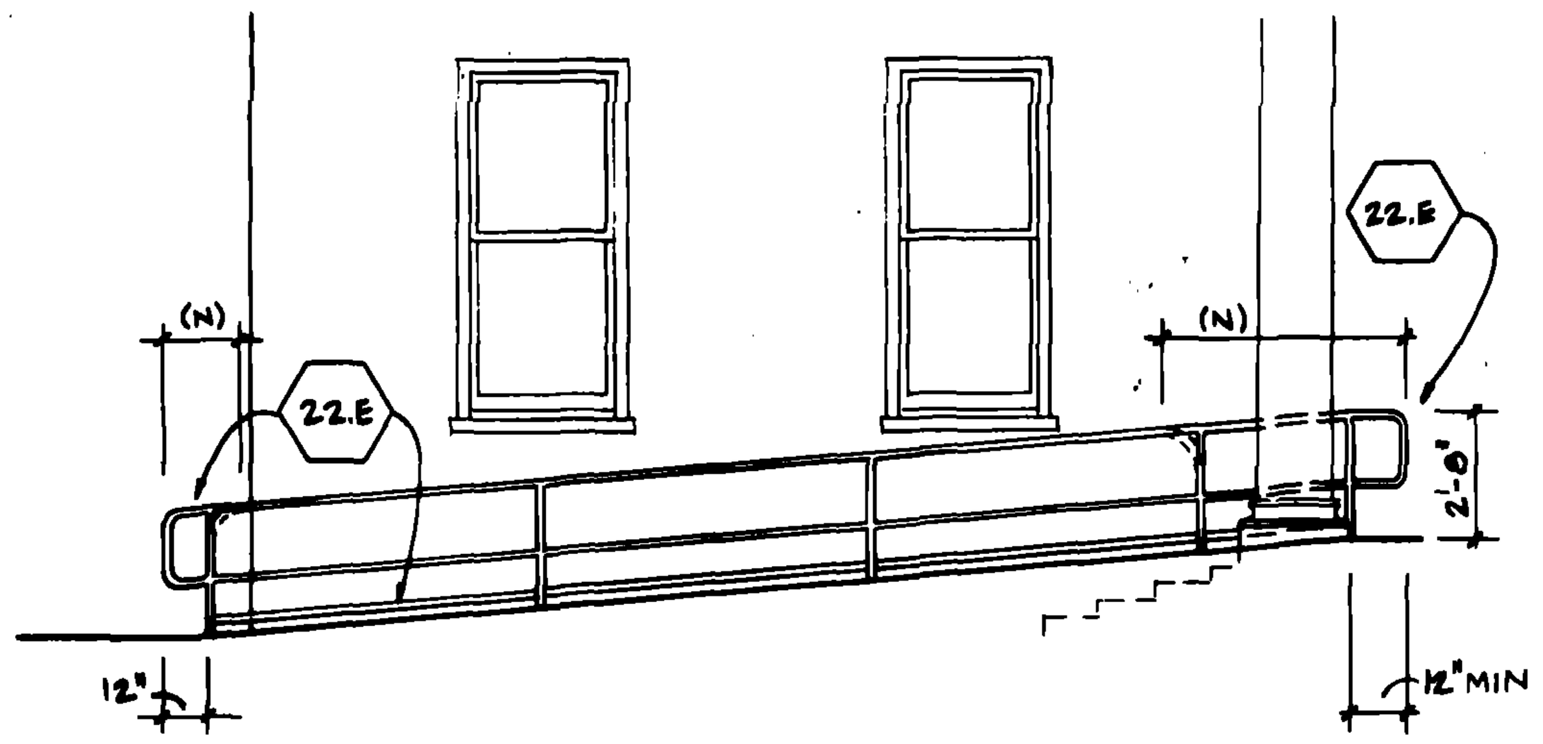
EXTERIOR AUDITORIUM ELEVATIONS, SOUTH, WEST

DRAWN PB | DATE 7/17/91
CHECK JG | JOB NO. 0620.010
SHEET A-7

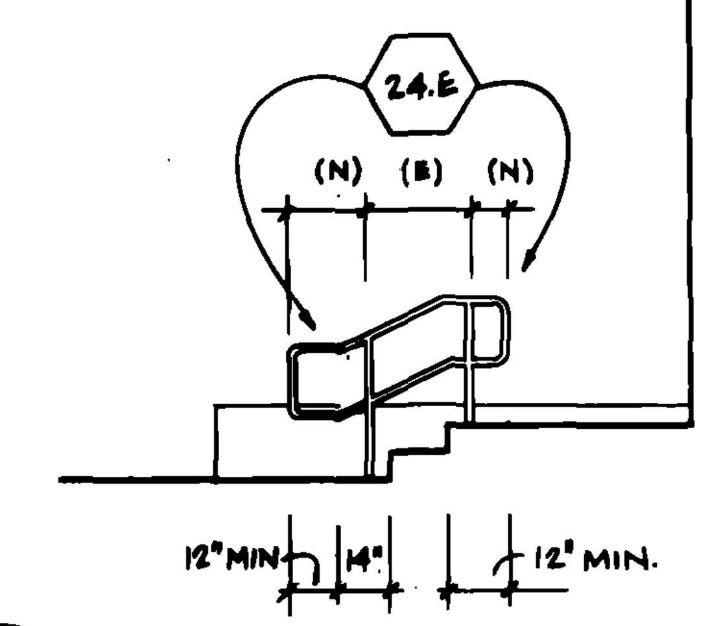
2 - 913

A-8
9/24

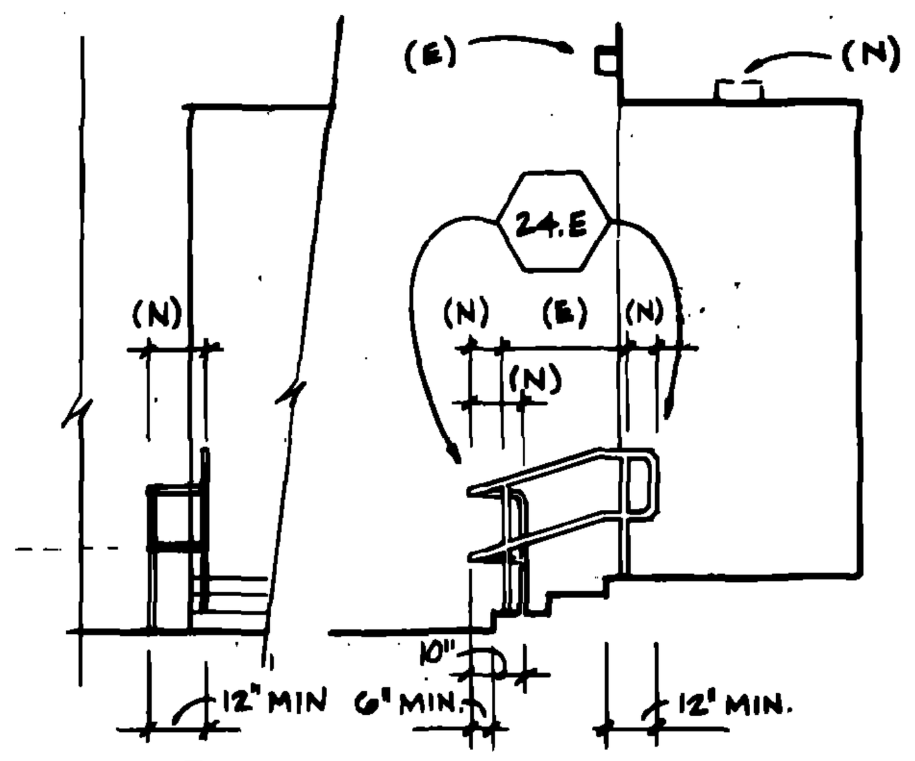
2-913



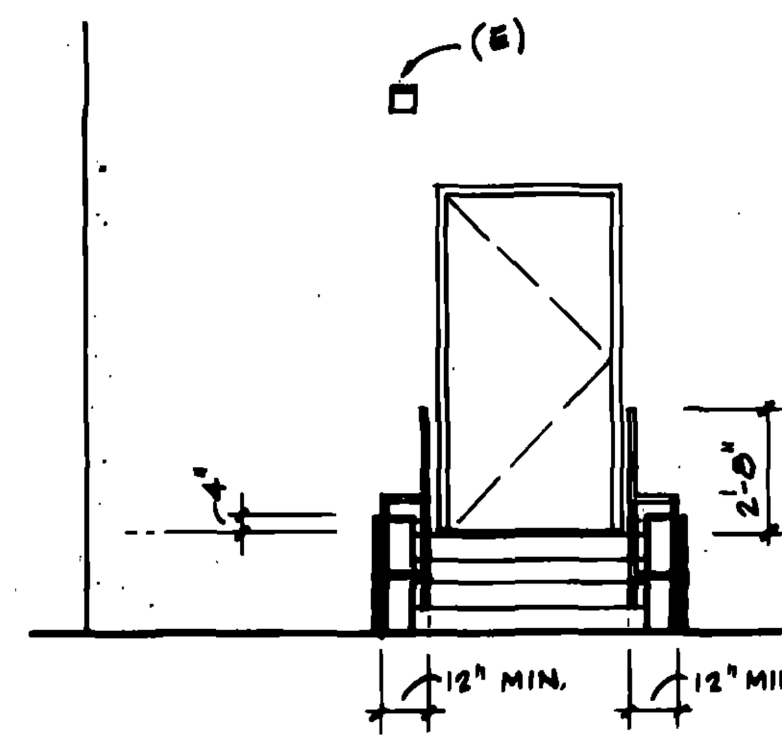
5/A8 EXIST. RAMP @ W MAIN ENTRANCE - SECTION SEE SDT-12 1/4" = 1'-0"



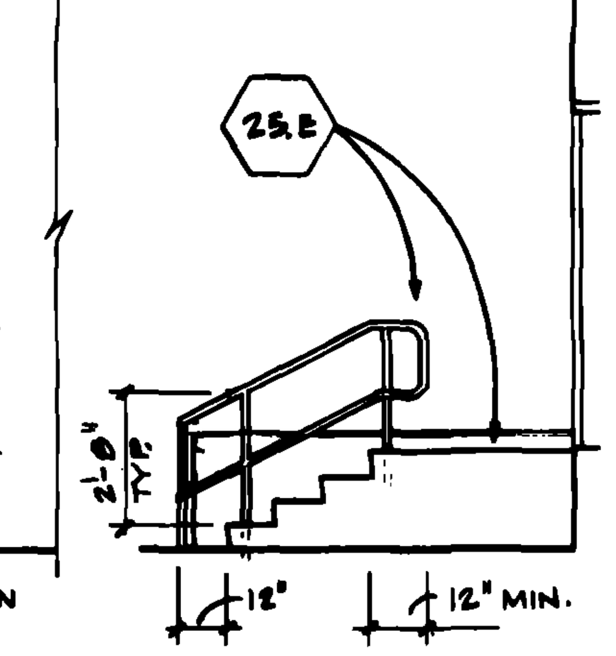
4/A8 EXIST. STAIR @ NW AUD. - SECTION SEE STD-12 1/4" = 1'-0"



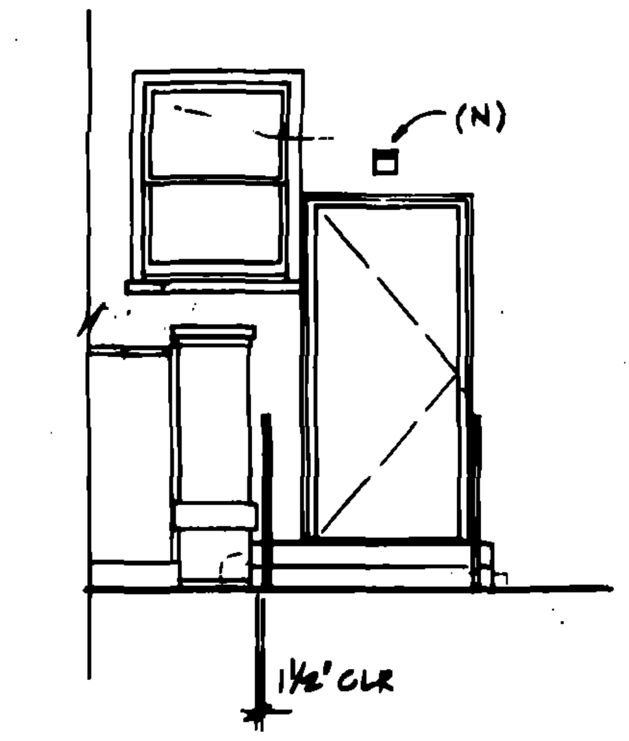
3/A8 EXIST. STAIR @ SE AUD. - SECTION SEE SDT-12 1/4" = 1'-0"



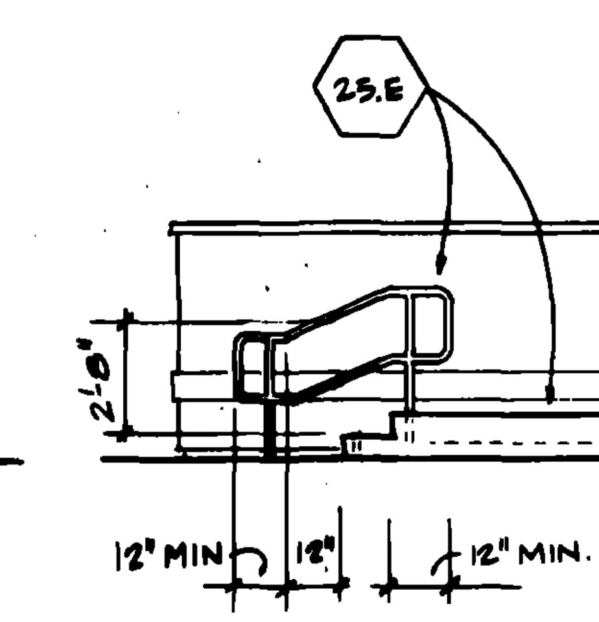
ELEVATION 1/4" = 1'-0"



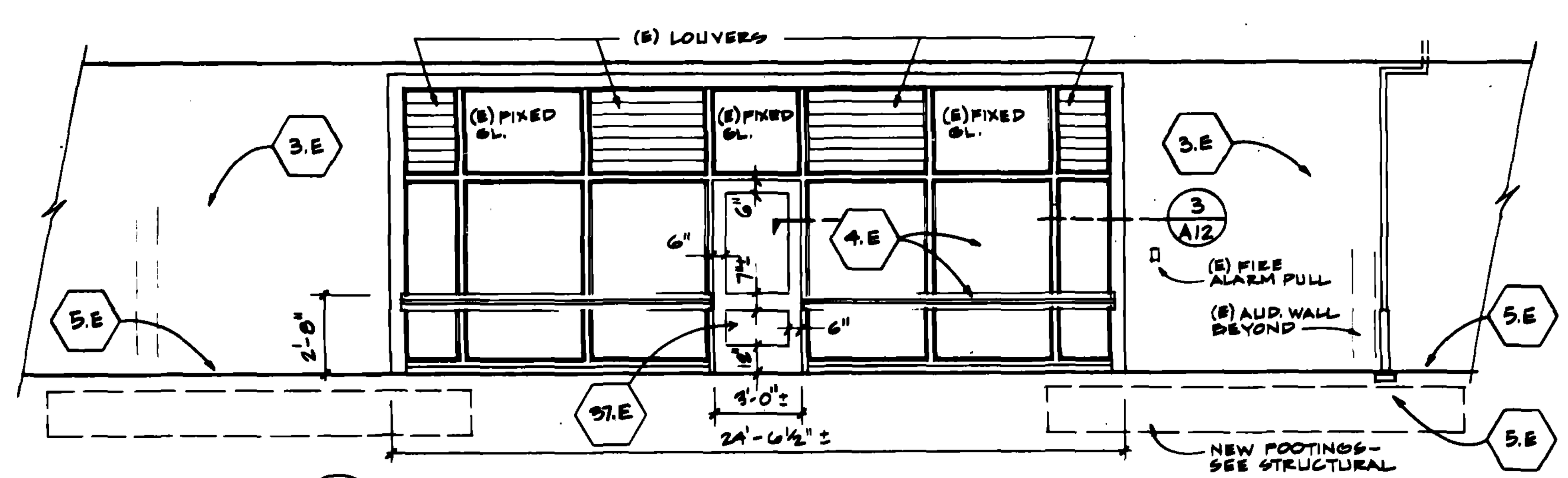
SECTION 1/4" = 1'-0"



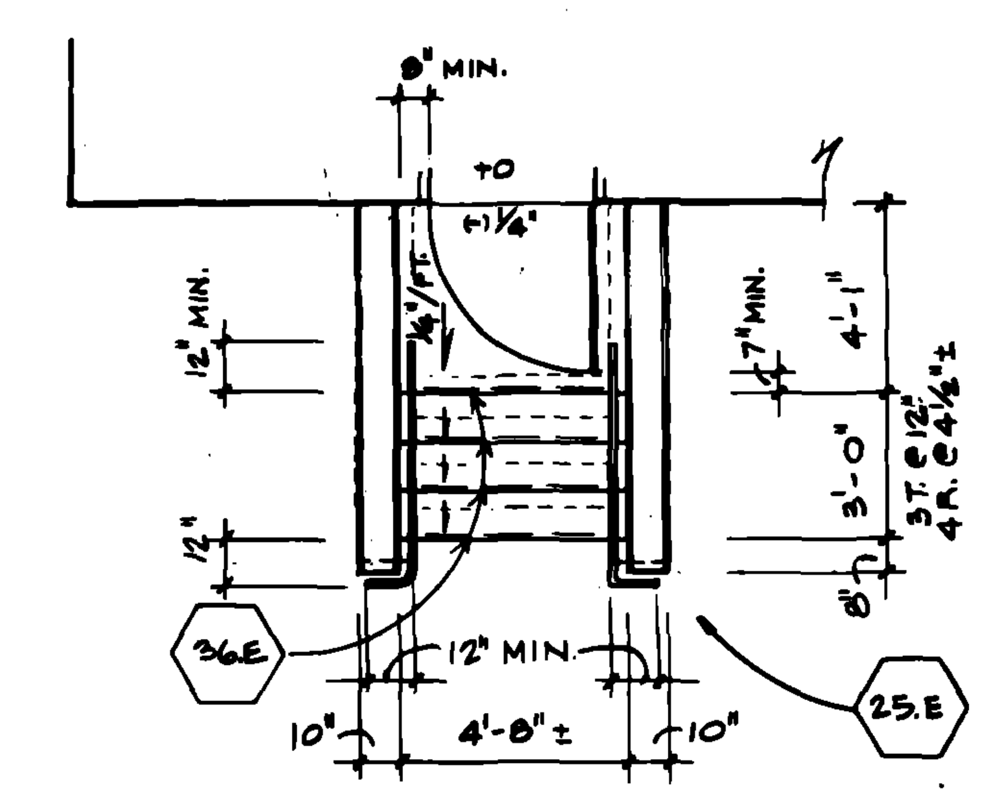
ELEVATION 1/4" = 1'-0"



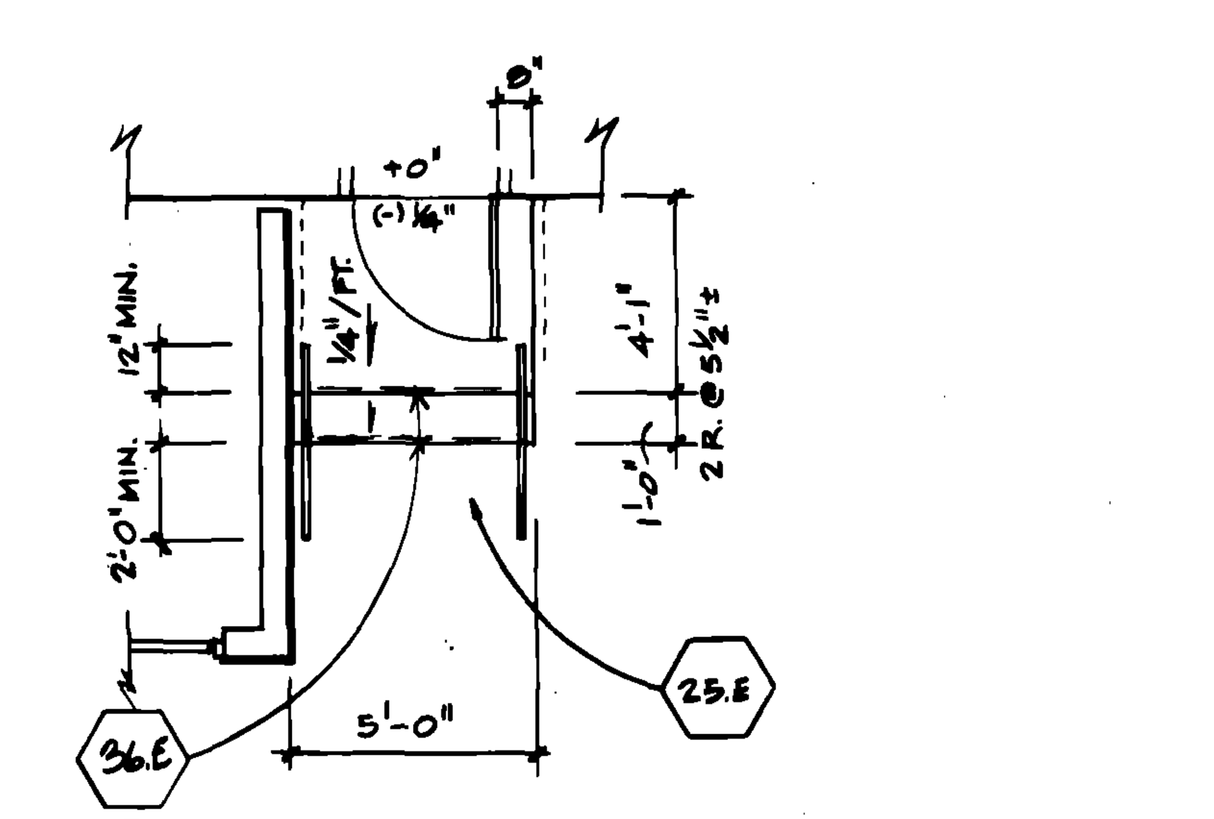
SECTION 1/4" = 1'-0"



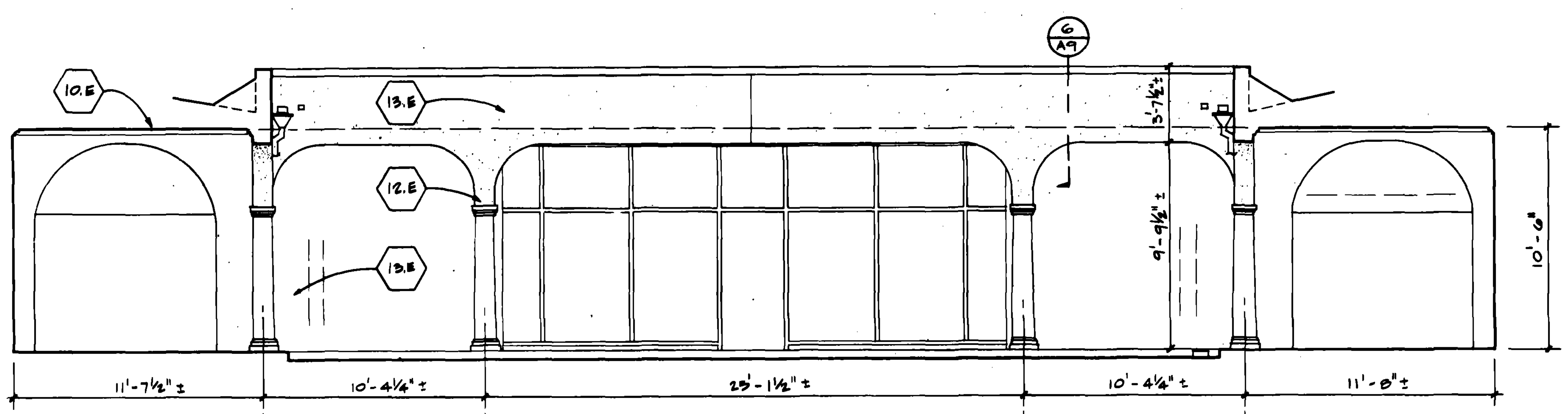
6/A8 ELEVATION OF STOREFRONT TO AUD. 101 (VIEW FROM COURTYARD) 1/4" = 1'-0"



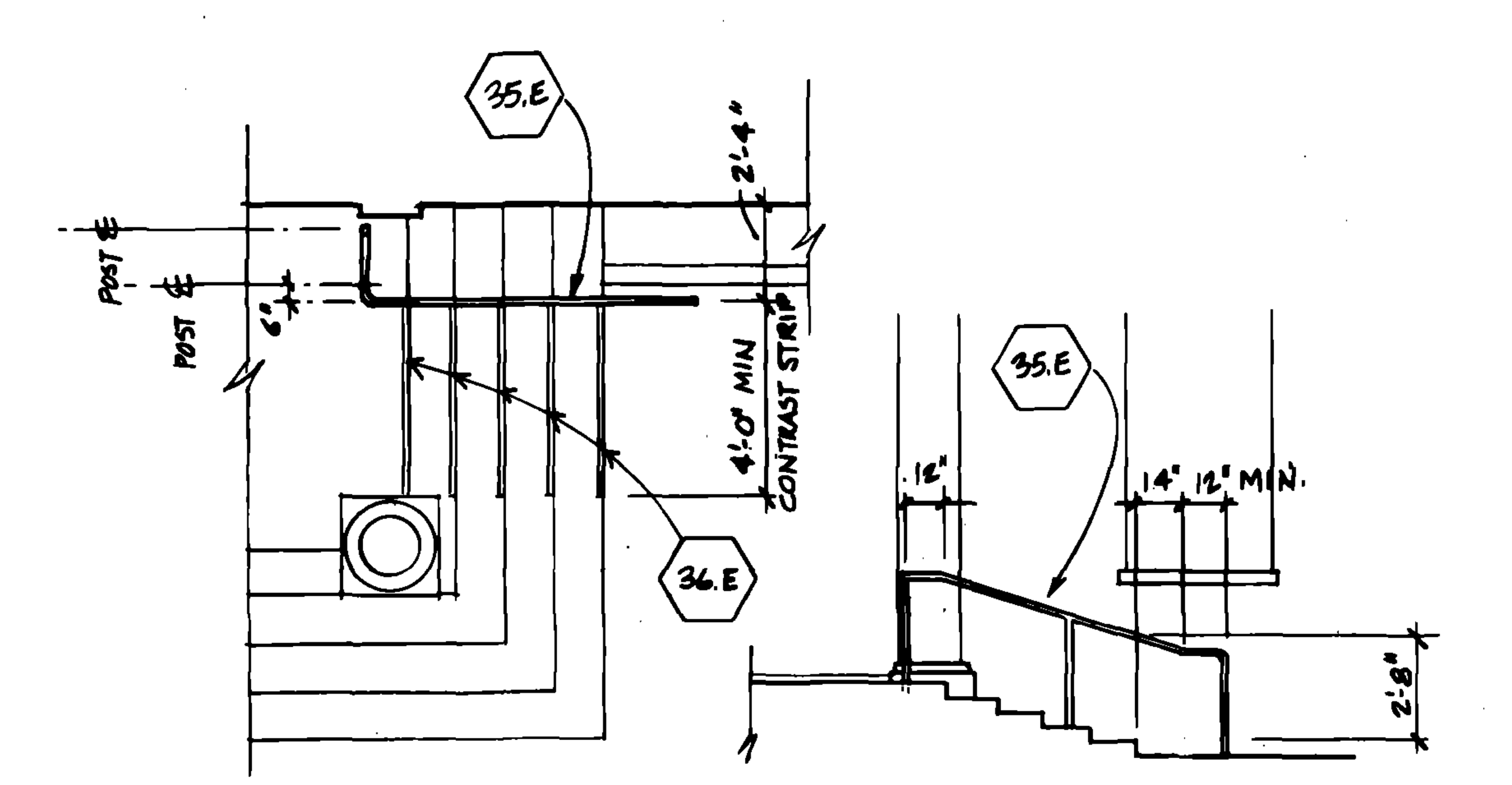
2/A8 NEW STAIR @ NE AUD. - PLAN SEE STD-12 1/4" = 1'-0"



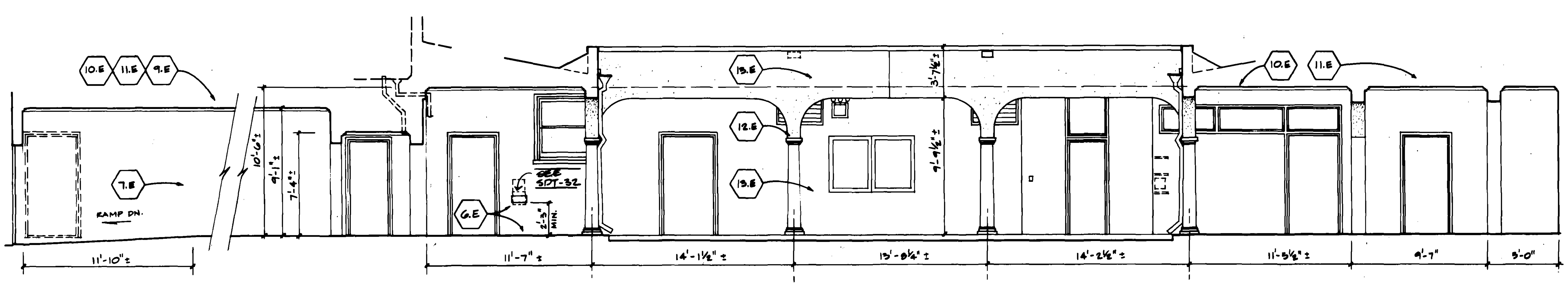
1/A8 NEW STAIR @ S VESTIBLE 109 - PLAN SEE STD-12 1/4" = 1'-0"



7/A8 ELEVATION/SECTION OF EAST WALL OF COURTYARD (WEST PARAPET WALL SIMILAR) 1/4" = 1'-0"



1A/A8 NEW HANDRAIL @ (E) W STAIR SEE SDT-12



8/A8 ELEVATION/SECTION OF SOUTH WALL OF COURTYARD (NORTH PARAPET WALL SIMILAR) 1/4" = 1'-0"

RECORD DRAWING 4-1-93

GROSSMANN DESIGN GROUP
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CITY OF MILPITAS
MILPITAS SENIOR CENTER
Repair and Restoration Project
Phase 2
Project 3368

DATE	ACTION	CHECKED
2/4/92	△1 REVISION #1, ADDENDUM #1	AS/JG
12/11/91	issued for Bid	
10/17/91	Bldg Dept & W Review	J.G
7/17/91	ISSUED FOR CLIENT APPROVAL	JG

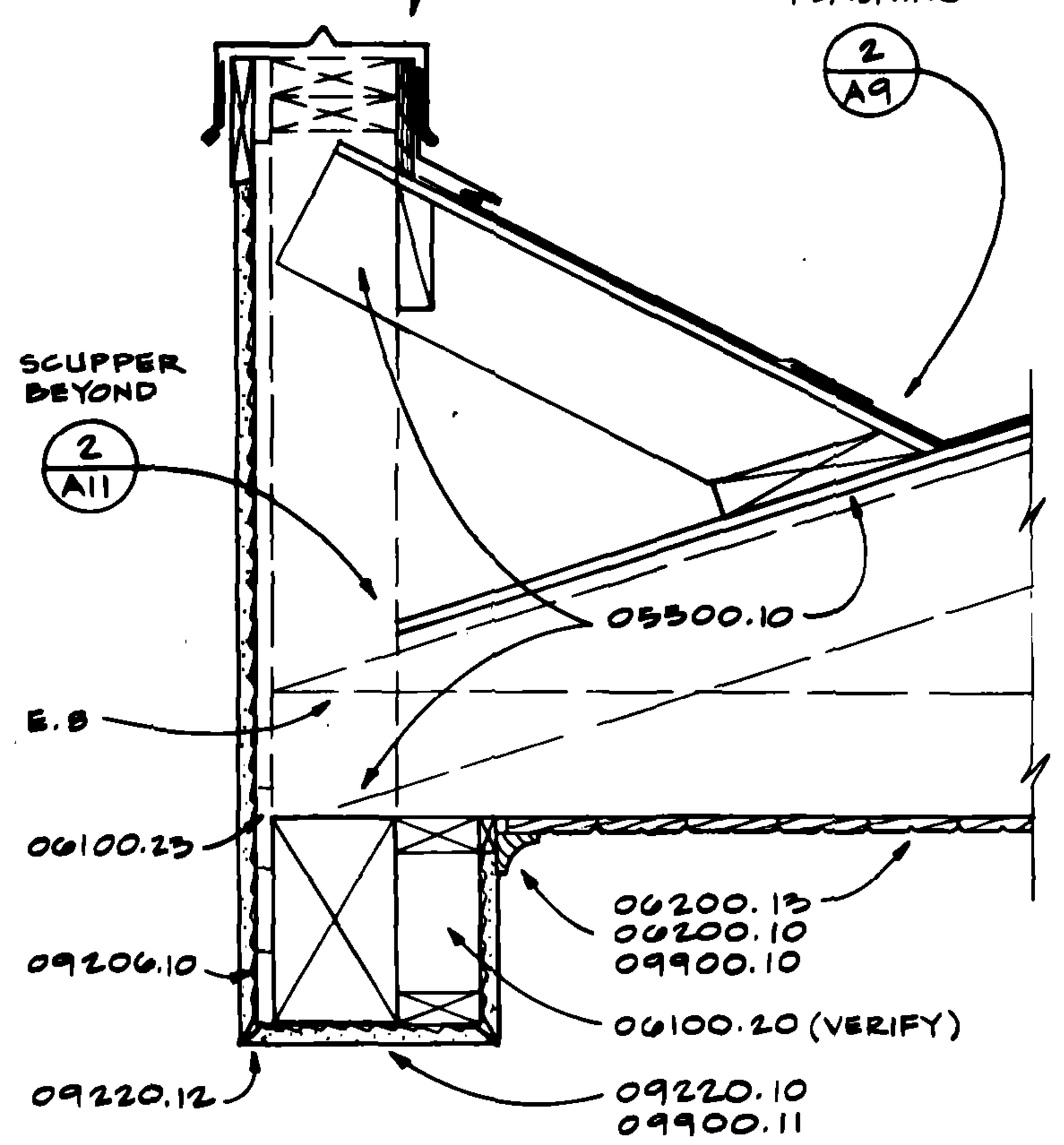
EXTERIOR ELEVS. AND PLANS
CT. YD., EXT. STAIRS AND RAMPS

DRAWN PG | DATE 7/17/91
CHECK JG | JOB NO. 0620.010
SHEET A-8

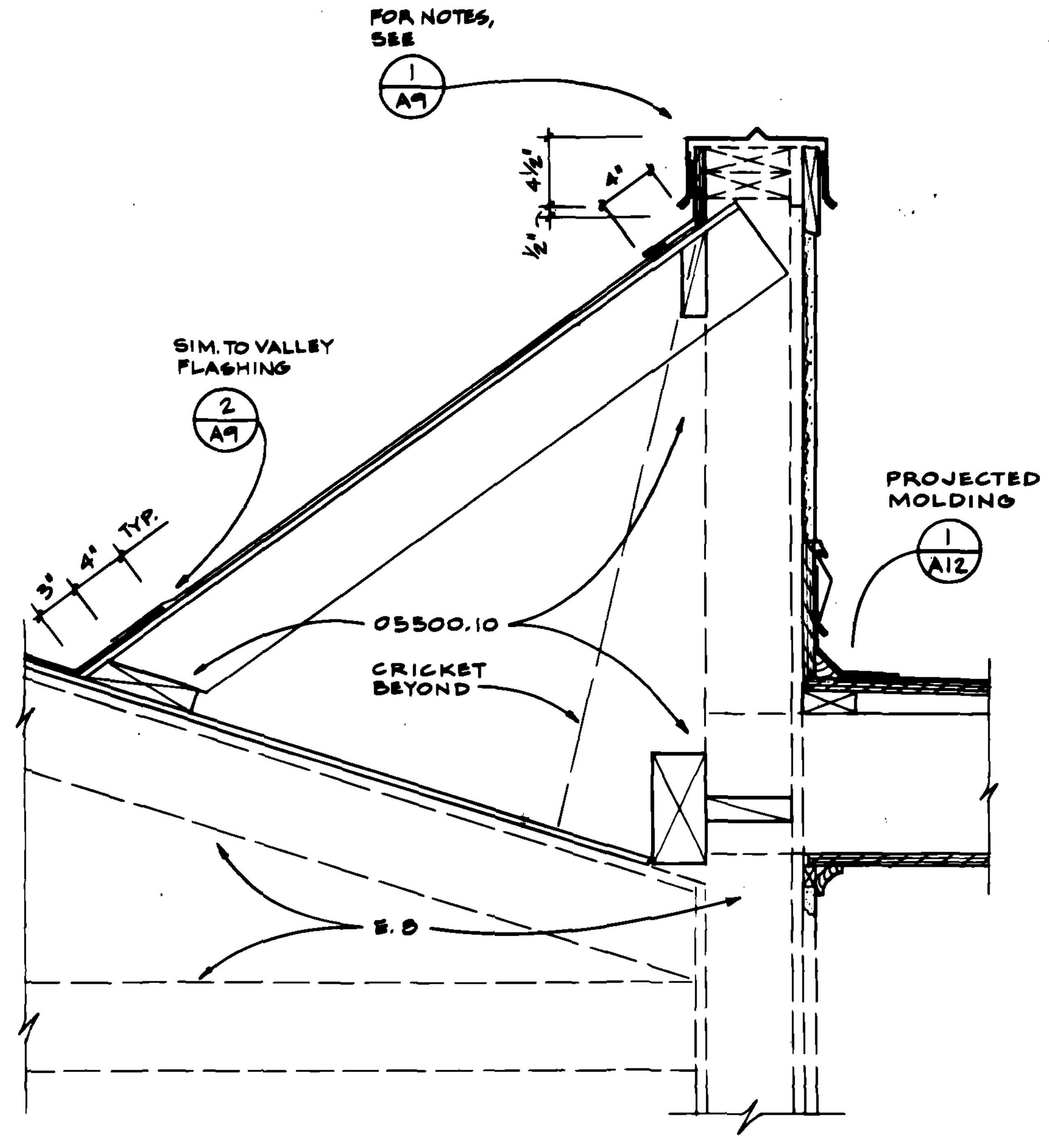
2 - 913

A-9 10/24

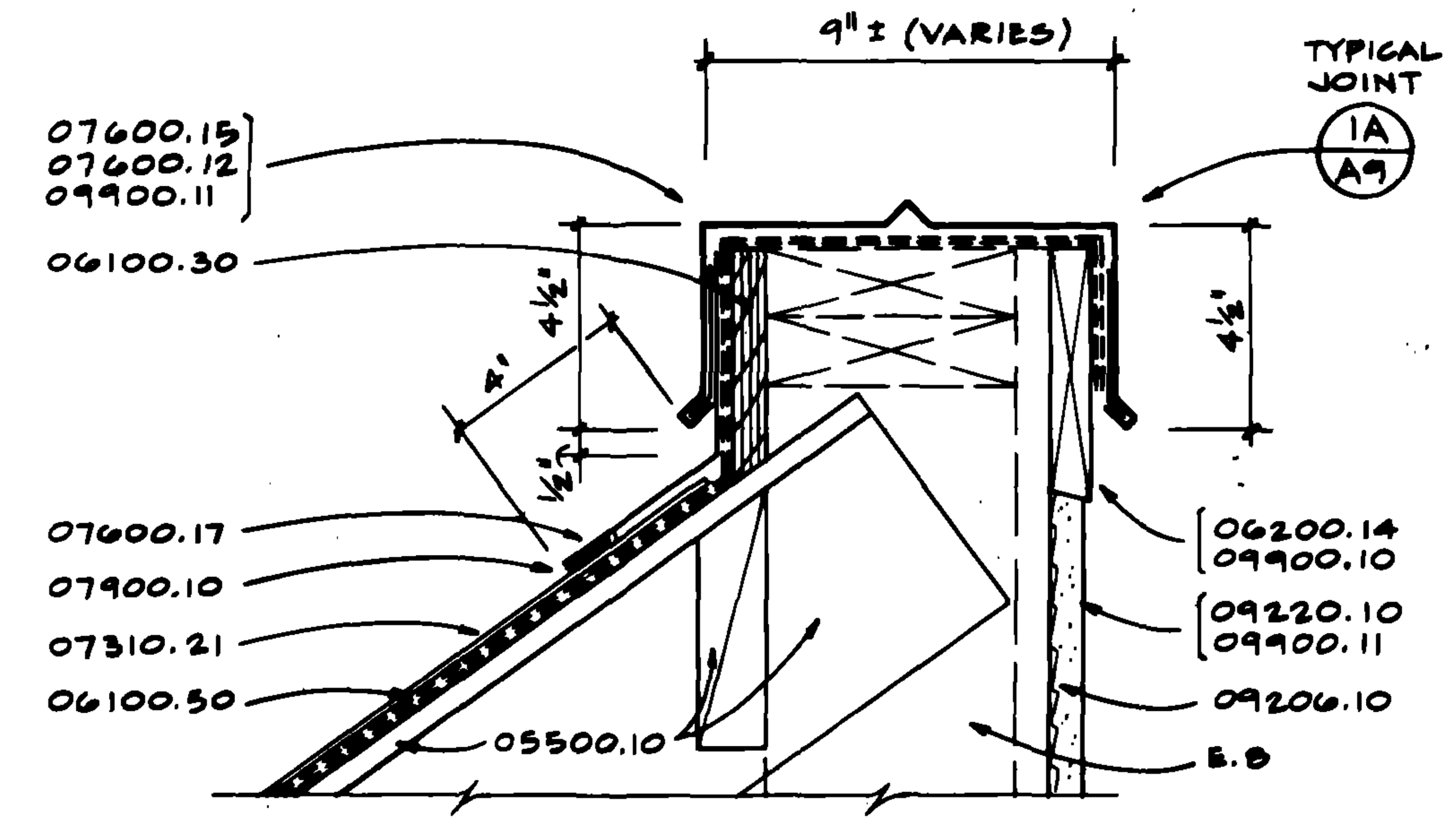
2-9/3



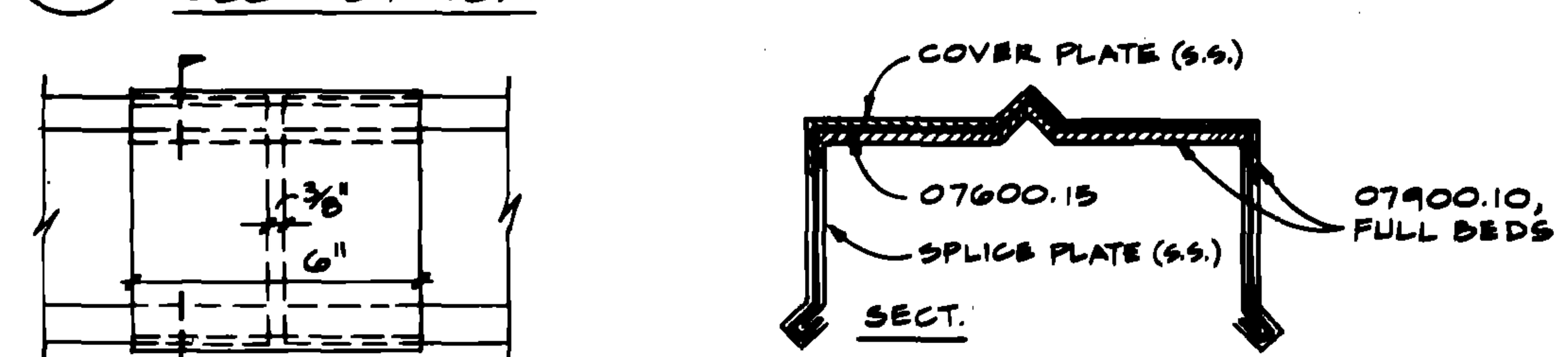
6 / A9 COURTYARD PARAPET - TYP.
SEE SDT-18A 1½" = 1'-0"



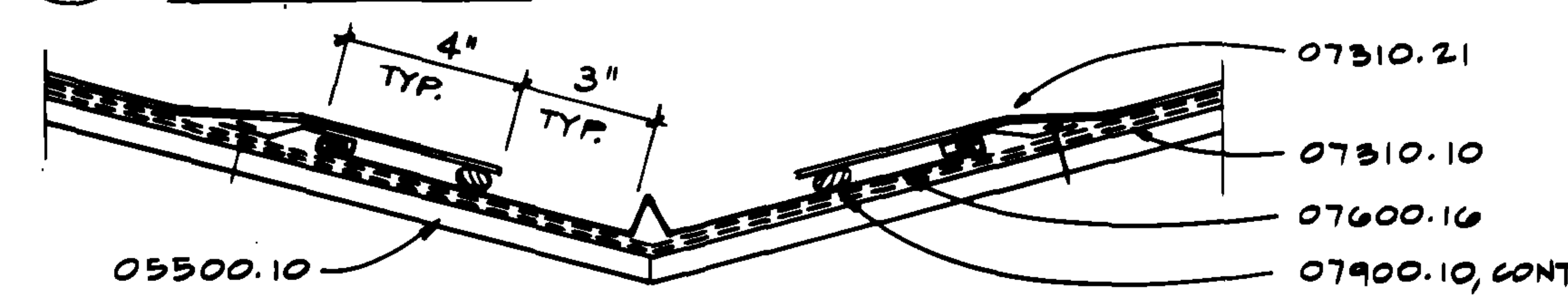
5 / A9 EXTERIOR PARAPET - TYPICAL
SEE SDT-18A 1½" = 1'-0"



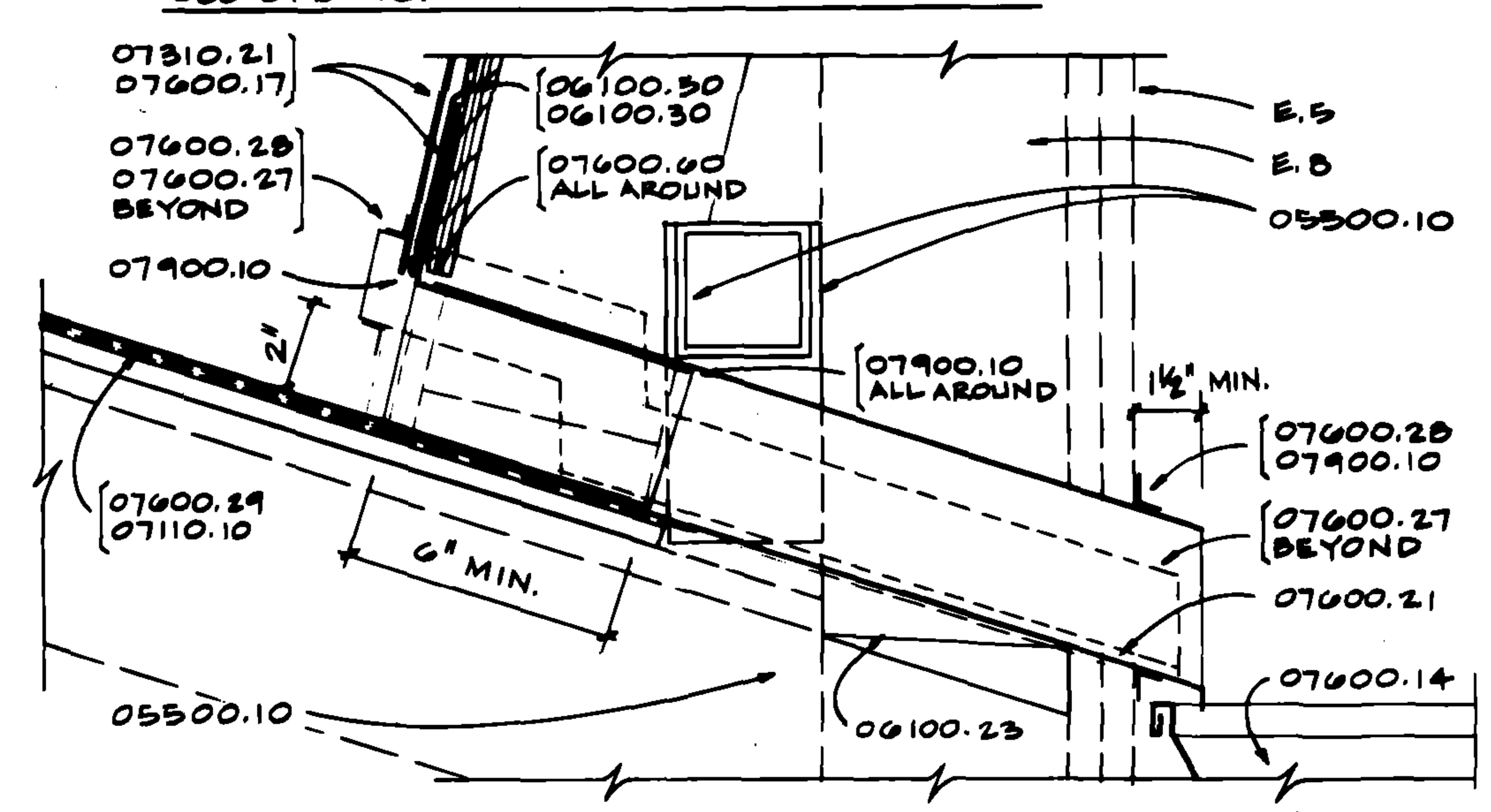
1 / A9 PARAPET CAP FLASHING - TYPICAL
SEE SDT-18A 3" = 1'-0"



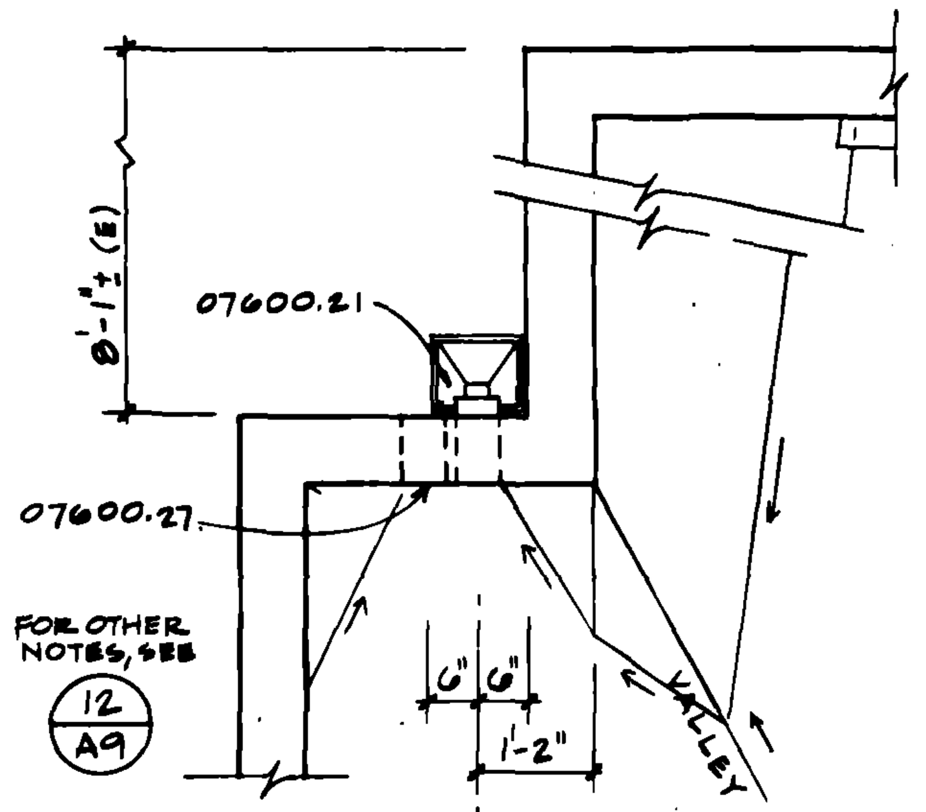
1A / A9 CAP FLASHING (COPING) - TYPICAL
SEE SDT-18A 3" = 1'-0"



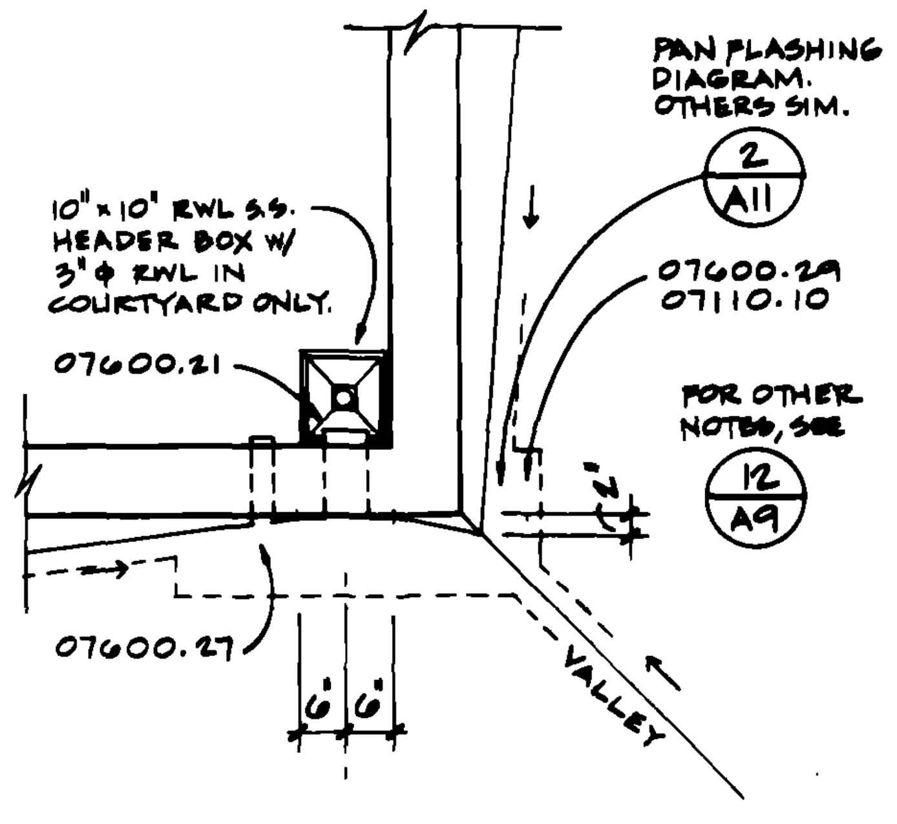
2 / A9 ROOF VALLEY FLASHING - TYPICAL
"W" TYPE @ MAIN VALLEYS, "V" TYPE @ CRICKETS
SEE STD-18A 3" = 1'-0"



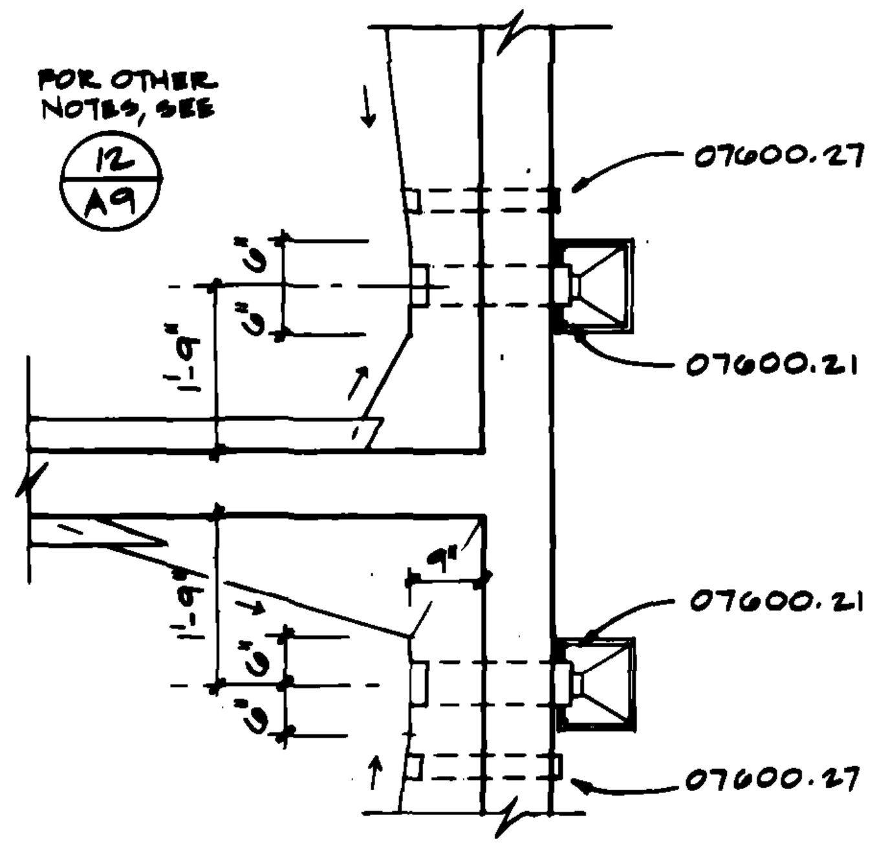
3 / A9 SCUPPER THRU PARAPET - TYPICAL
SEE SDT-18A 3" = 1'-0"



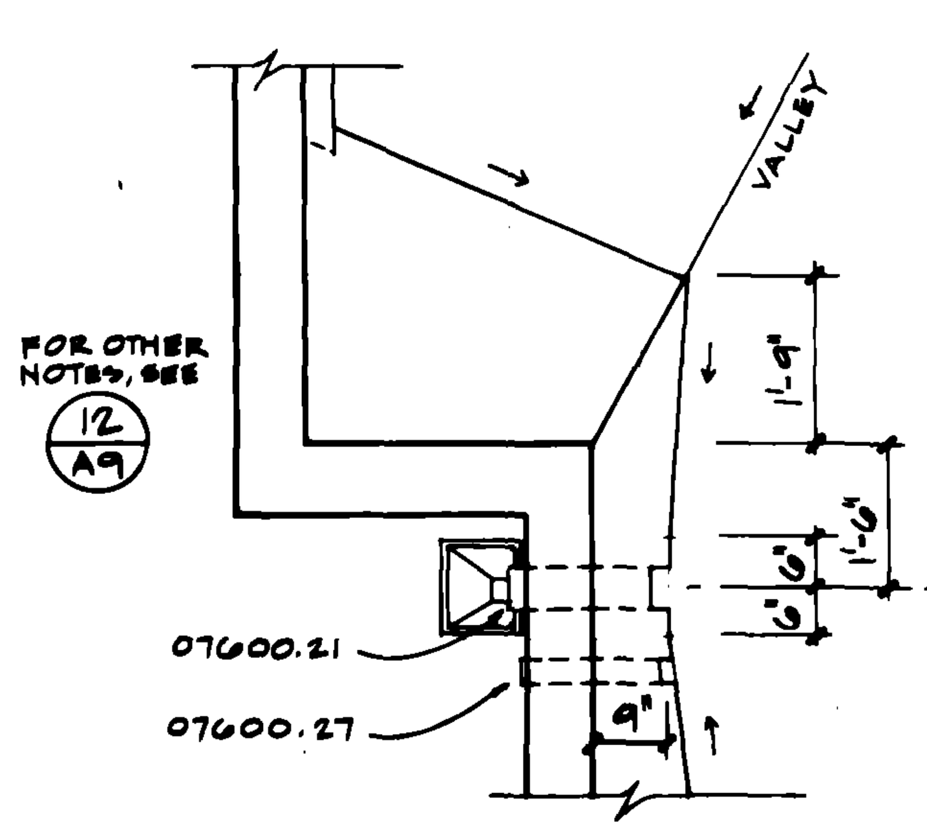
7 / A9 NE SCUPPER DIAGRAM
PLAN (NO SCALE)
DETAIL REVISED FOR RECORD DWG.



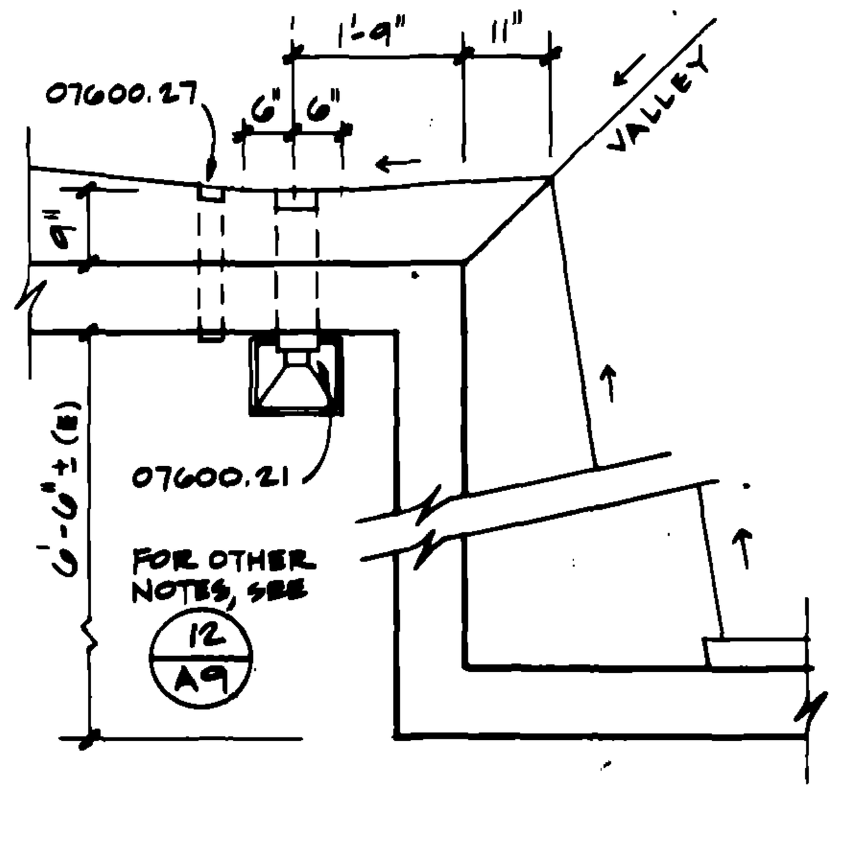
8 / A9 COURTYARD SCUPPER DIAG.
PLAN (NO SCALE)



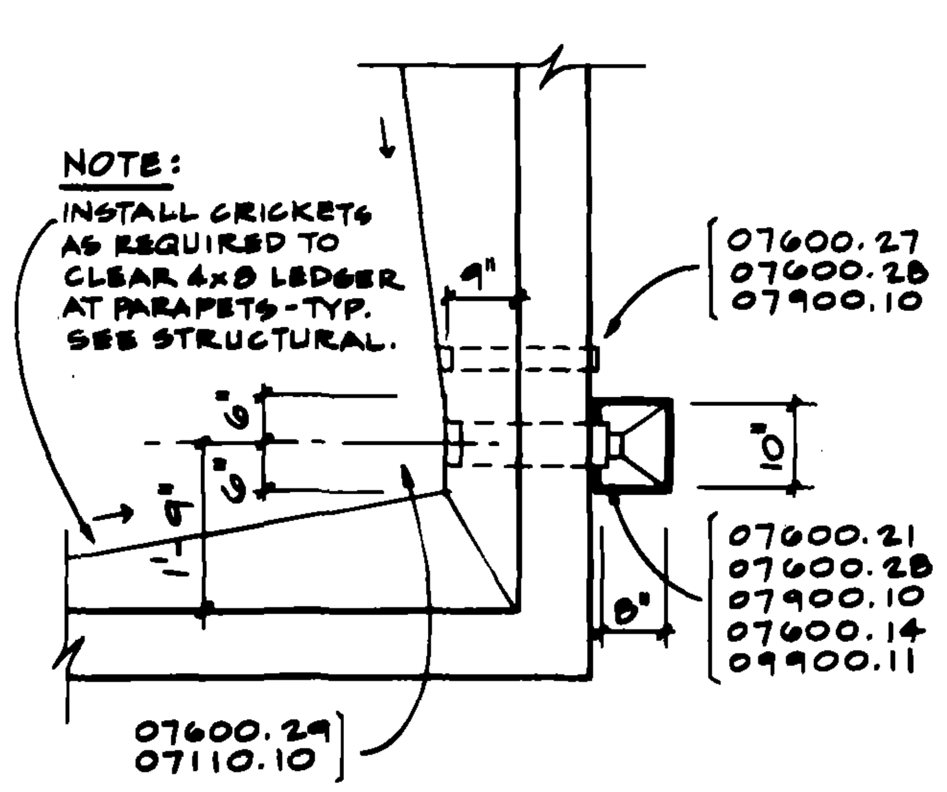
9 / A9 SOUTH SCUPPER DIAGRAM
(NO SCALE)



10 / A9 NW SCUPPER DIAGRAM
PLAN (NO SCALE)



11 / A9 WEST SCUPPER DIAGRAM
PLAN (NO SCALE)



(TYPICAL DIAGRAM NOTE)

12 / A9 SW SCUPPER DIAGRAM
PLAN (NO SCALE)

NOTES REGARDING DETAILS

03300.10	New concrete stairs, landings, and handrails. See building elevations and detailed plans. Construction shall be accordance with "Standard Plans for Public Works Construction", by the American Public Works Association – Southern California Chapter, 1989 Edition, Standard Plan 640-0. Handrails shall be in accordance with Section 05520 of the specifications. Provide 1/2 inch chamfers at all exterior corners.
04340.10	6 inch reinforced concrete unit masonry: See California Masonry Association of California and Nevada, Typical Details for Concrete Masonry – Typical Concrete Masonry Fence Design 6" Block. Provide stepped concrete footings as required by adjacent finished grades. Provide dampproofing (asphaltic emulsion) as required where top of footing is below adjacent grade.
05500.10	See structural drawings.
05500.11	Stainless steel Z-bracket, 1/8 inch thick. Install using stainless steel, countersunk screws. Pre-drill holes to avoid splitting wood.
05500.12	Galvanized steel angle brackets, 1/8 inch thick. Install using stainless steel, countersunk screws. Pre-drill holes to avoid splitting wood.
05500.13	Galvanized steel angle brackets, 2 1/2" x 2 1/2" x 1/4". Weld lower support angle and upper triangular fin to 1/4" thick galvanized steel plates. Bolt plates to new 2 x 8 blocking with 3/8" stainless steel lag bolts and lock washers. Secure upper diagonal with 3/8" stainless steel lag bolts and lock washers.
05500.14	Galvanized steel angle legs and cross-bar, 2 1/2" x 2 1/2" x 1/4". Weld legs (variable lengths) to 1/4" thick galvanized steel plates and bolt assembly together with 3/8" stainless steel lag bolts and lock washers.
05500.15	Galvanized steel bent plate or strap, 16 ga. min. Attach to 2 x 4 wood plates with stainless steel screws. Do not penetrate roofing.
05500.16	Fasten existing conduits to angle supports with stainless steel straps, 16 ga. min. and stainless steel screws as required.
06100.10	3/8" galvanized bent rod, nut, and lock washer. Anchor shaped wood pieces at 2'-0" on center maximum. Locate anchors 1'-0" from corners.
06100.20	2 x 4 wood framing.
06100.21	Shaped 2 x wood framing.
06100.22	2 x 4 flat.
06100.23	New wood blocking as required.
06100.24	Wood cant.
06100.26	2 x 6 wood framing.
06100.28	2 x 8 wood framing.
06100.29	2 x 10 wood framing.
06100.30	Plywood sheathing (exterior grade, 3/4 inch thick unless otherwise noted). See structural drawings as applicable.
06100.40	Framing connector.
06100.50	Building paper.
06100.90	Existing or new wood filler or blocking as required by field conditions. Replace deteriorated existing wood framing, blocking, and fillers.
06200.10	Western Moulding & Millwork Producers Association WM 85.
06200.11	Western Moulding & Millwork Producers Association WM 346.
06200.12	Western Moulding & Millwork Producers Association and WM 224. Attach with exterior grade adhesive and concealed stainless steel nails. Miter corners.
06200.13	Western Moulding & Millwork Producers Association and PT 37, ? x 4.
06200.14	New wood moulding to match existing as required.
06200.15	Wood trim, surface applied. Miter and ease corners.
06200.20	Continuous redwood shaped board from 3 x 8. Return at gates. Miter corners.
06200.21	3 x 4 redwood board both sides of opening. Anchor to concrete unit masonry with expansion anchors at 16 inches on center.
06200.22	2 x 4 redwood frame with 2 x 4 diagonal redwood bracing at back.
06200.23	2 x 2 redwood trim.
06200.24	3/4 inch thick exterior grade plywood (for painted finish).
06200.40	Patch and repair existing wood moulding.
06200.50	Hardware for gates.
06200.60	Hardwood railing (birch or dense vertical grain douglas fir) shaped from 2 x 8 with rounded edges and mitered corners. Drill for concealed hardwood dowels (2 minimum at each corner) and securely glued at each mitered corner.
07110.10	Type 3 Roofing/Waterproofing (Elastomeric strip flashing). SEE SDT-13A-2R
07110.11	Elastomeric pads (neoprene) under plates. Provide neoprene washers (waterproof) at exposed bolt heads. SEE SDT-13E
07110.12	Neoprene pad at each support.
07310.10	Protective underlayment.
07310.11	Continuous mastic or roofing cement under 2 x 4 wood plates laid over shingles.
07310.20	Type 1A Roofing/Waterproofing (Asphalt Shingles). SEE SDT-13B-1R
07310.21	Type 1B Roofing/Waterproofing (Asphalt Shingles). SEE SDT-13B
07530.10	Type 2 Roofing/Waterproofing (EPDM). SEE SDT-13C
07600.10	22 gauge minimum stainless steel hanging gutter. SEE SDT-18A

RECORD DRAWING 4-1-93

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151 Townsend Street
San Francisco, CA 94107
415-543-8618

CITY OF MILPITAS
MILPITAS SENIOR CENTER
Repair and Restoration Project
Phase 2
Project 3368

DATE	ACTION	CHECKED
12/9/91	issued for bid	
10/17/91	Bldg Dept. Submittal	J.G.
7/17/91	ISSUED FOR CLIENT APPROVAL	JG

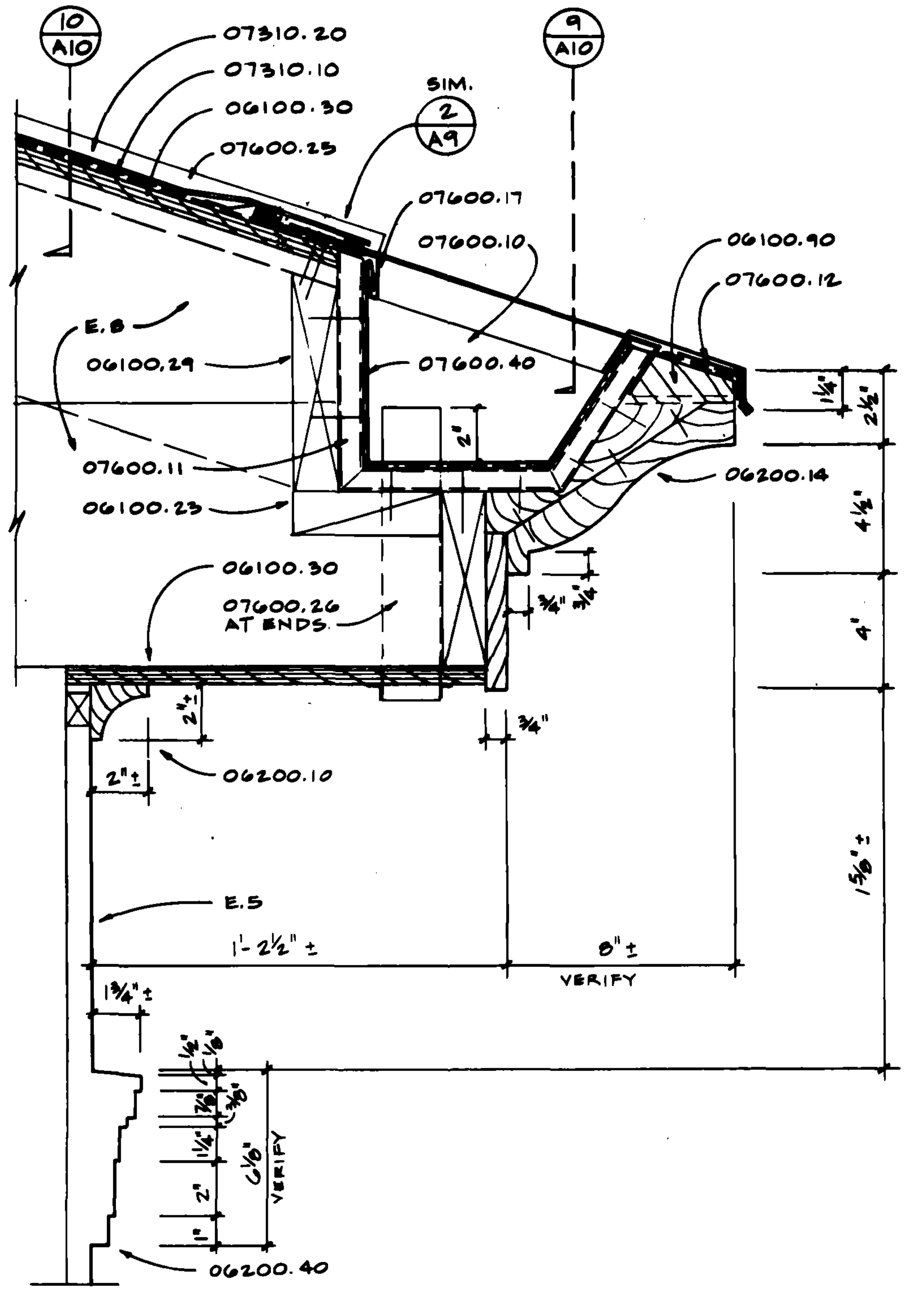
ROOF DETAILS
SCUPPER PLAN DIAGRAMS

DRAWN PG	DATE 7/17/91
CHECK JG	JOB NO. 0620.010

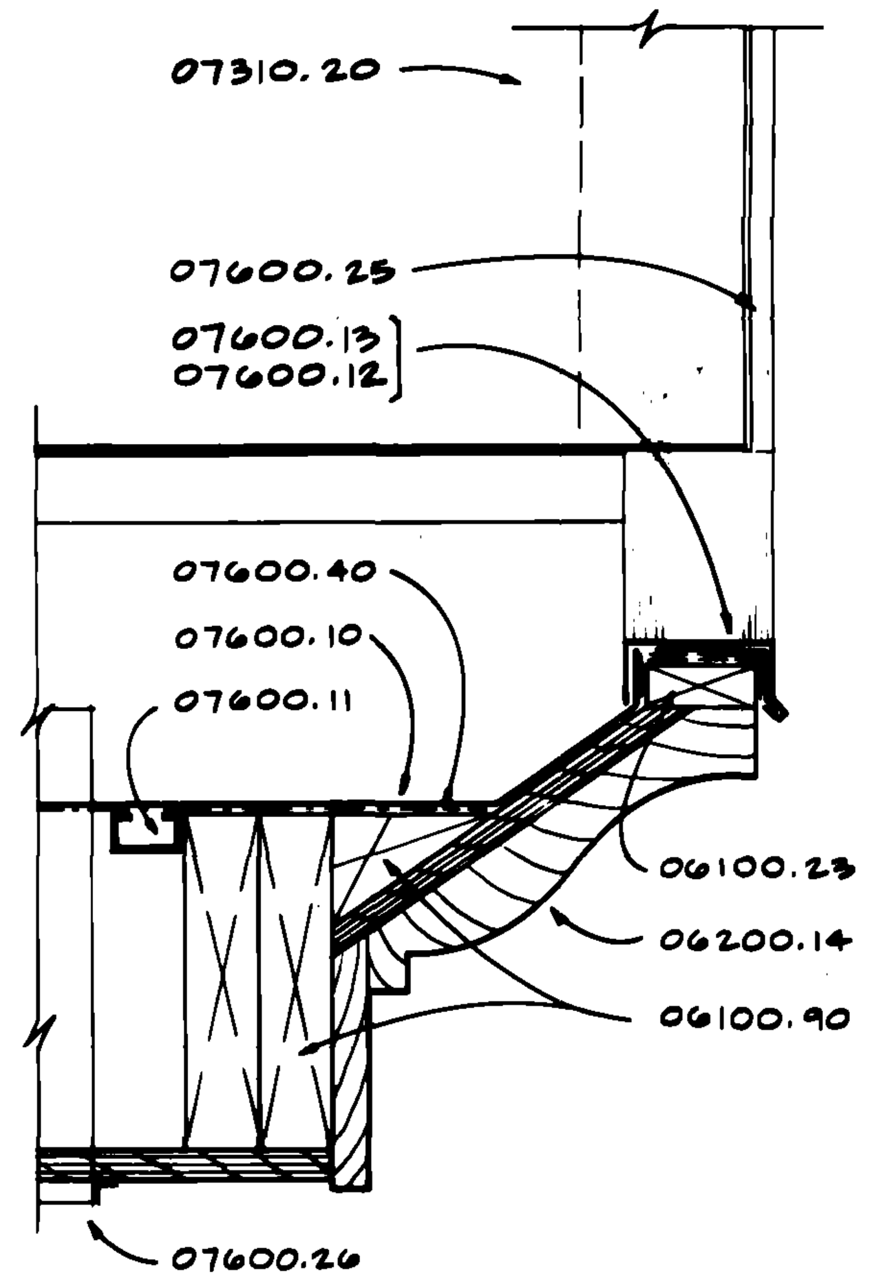
SHEET A-9

A-10
11/24

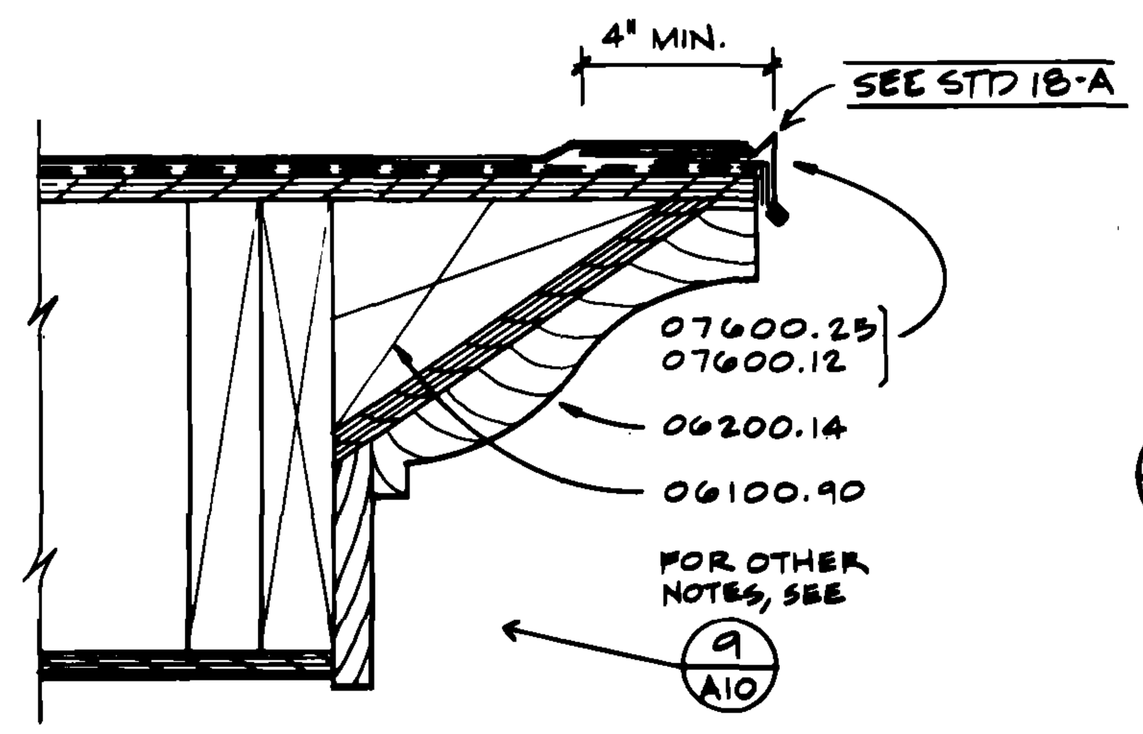
2-913



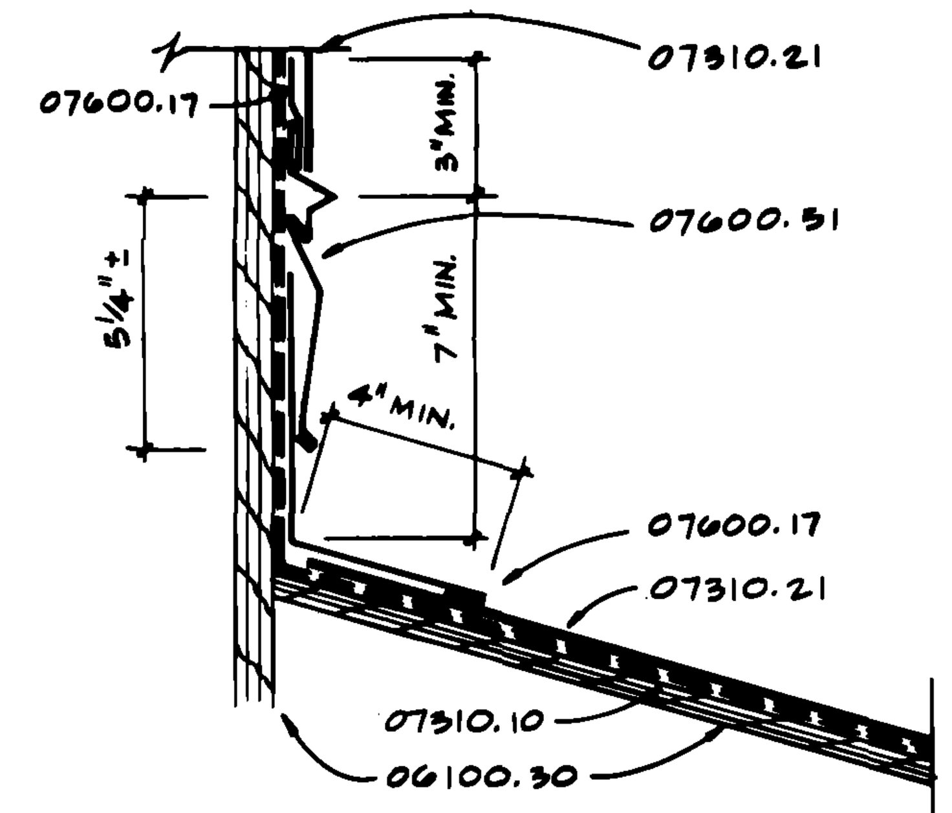
(13 / A10) GUTTERS @ AUDITORIUM & PORTICO
SEE SDT-18A — 3" = 1'-0"



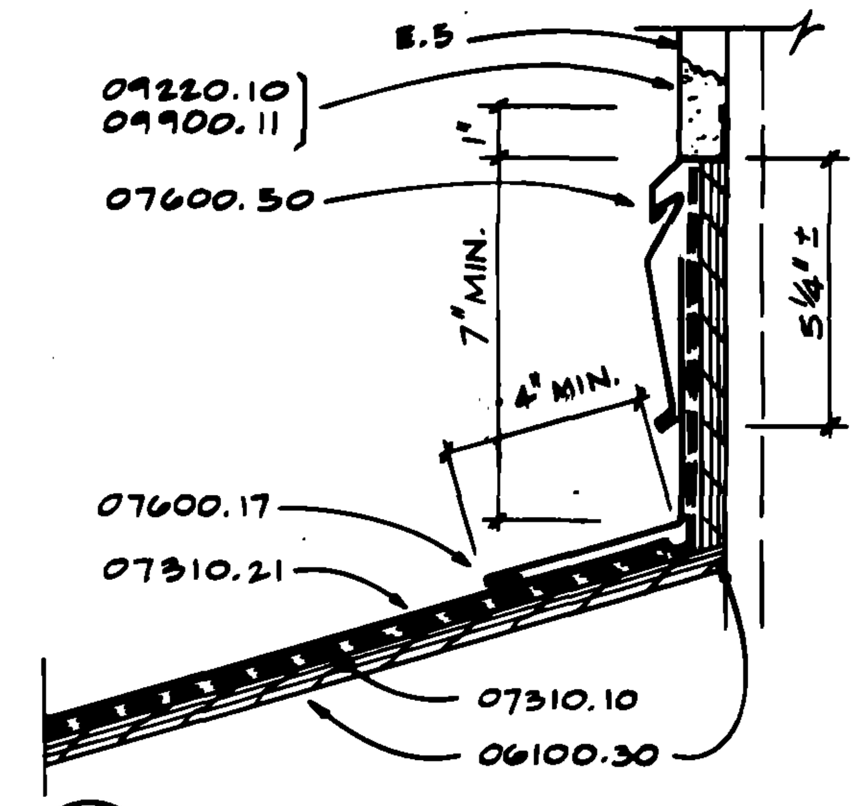
(9 / A10) GUTTER END @ AUD. & PORTICO
SEE SDT-18A — 3" = 1'-0"



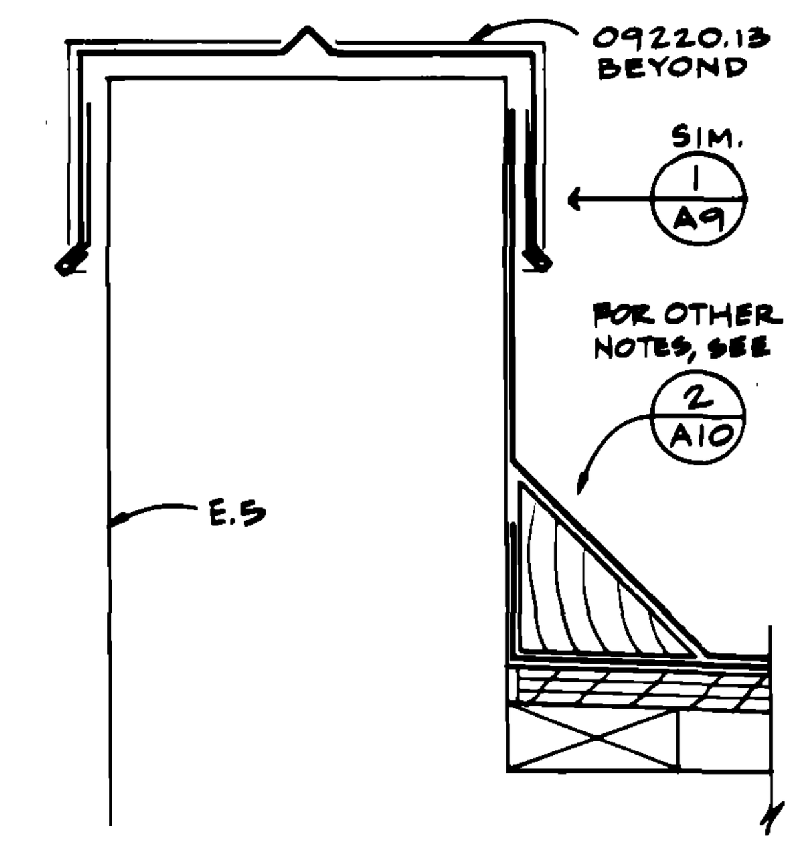
(10 / A10) RAKE @ AUD. & PORTICO
MODIFIED IN FIELD, SEE SKETCH SK-6/9-2 — 3" = 1'-0"



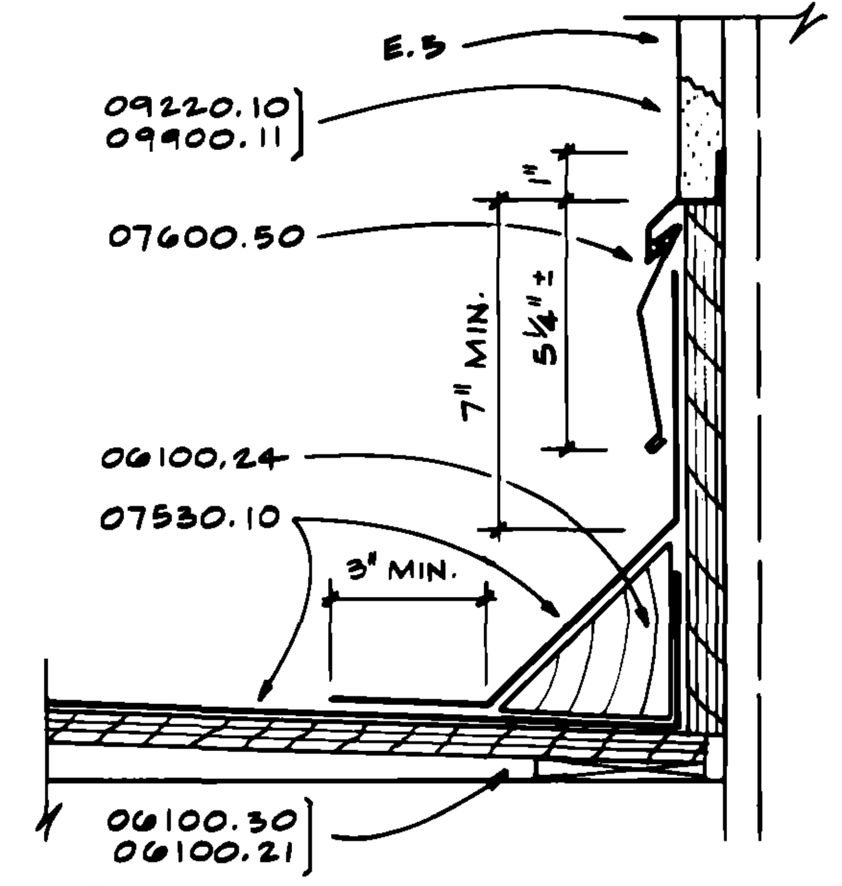
(5 / A10) WALL REGLET @ SHINGLES
TYPICAL — 3" = 1'-0"
SEE SDT-18A



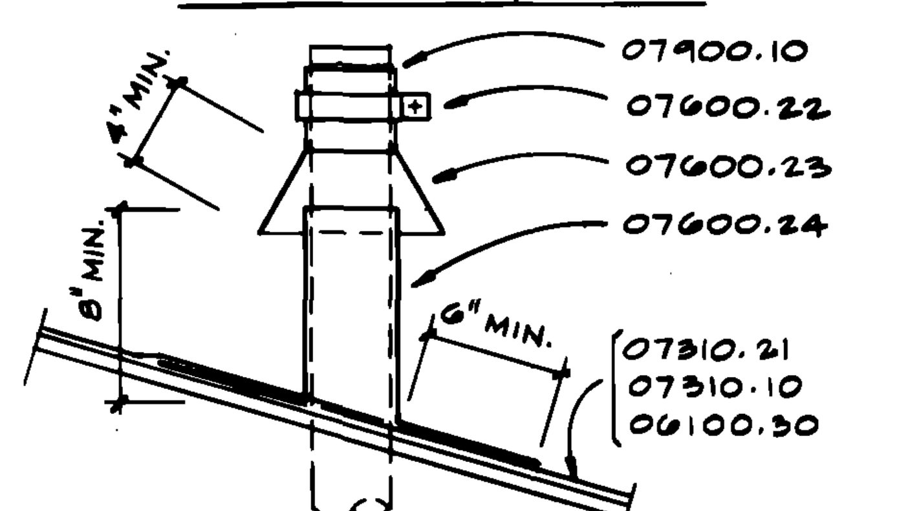
(1 / A10) WALL REGLET @ CEM. PLAS.
TYPICAL — 3" = 1'-0"
SEE SDT-18A



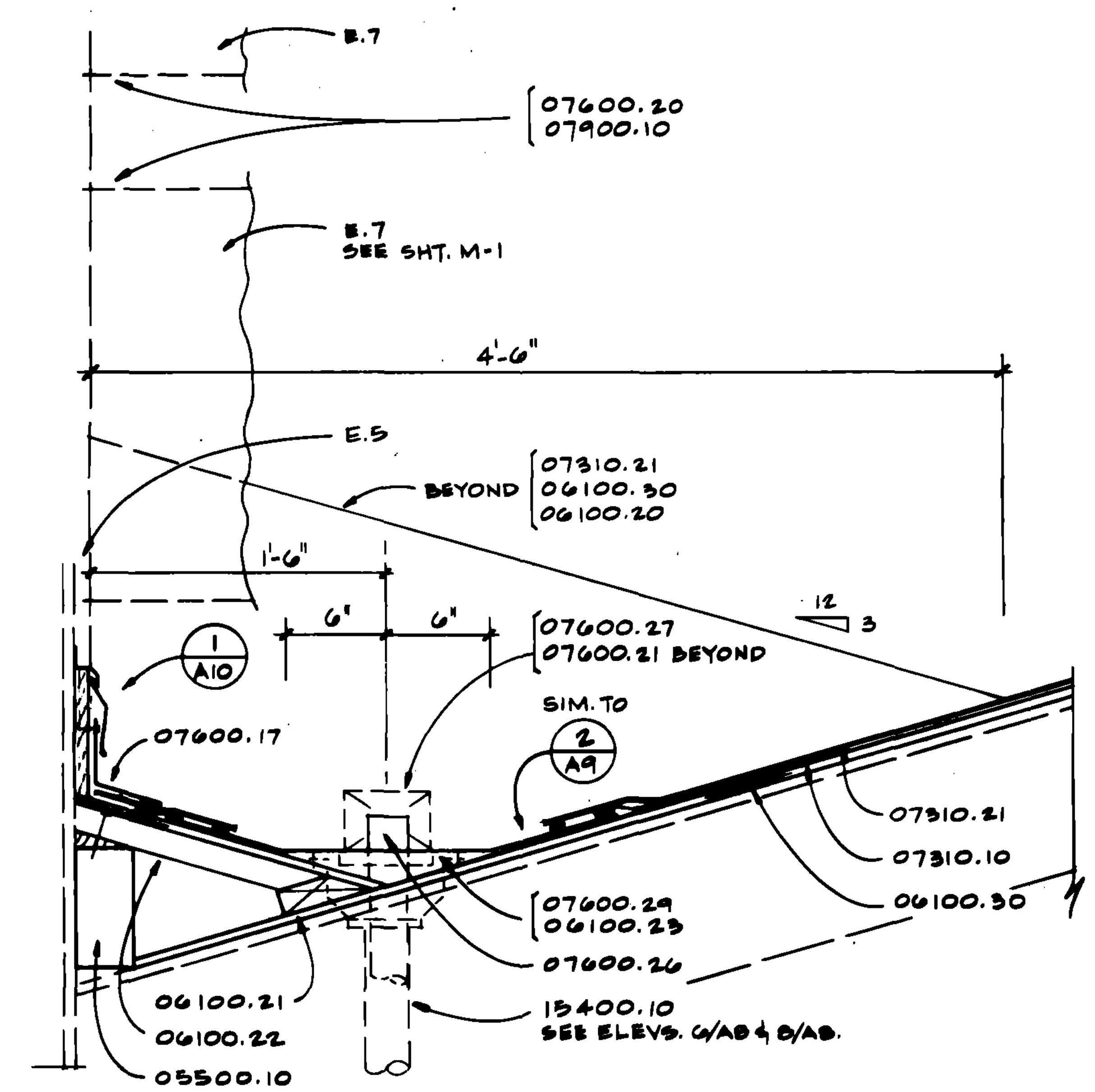
(6 / A10) PARAPET @ LOW ROOF
3" = 1'-0"



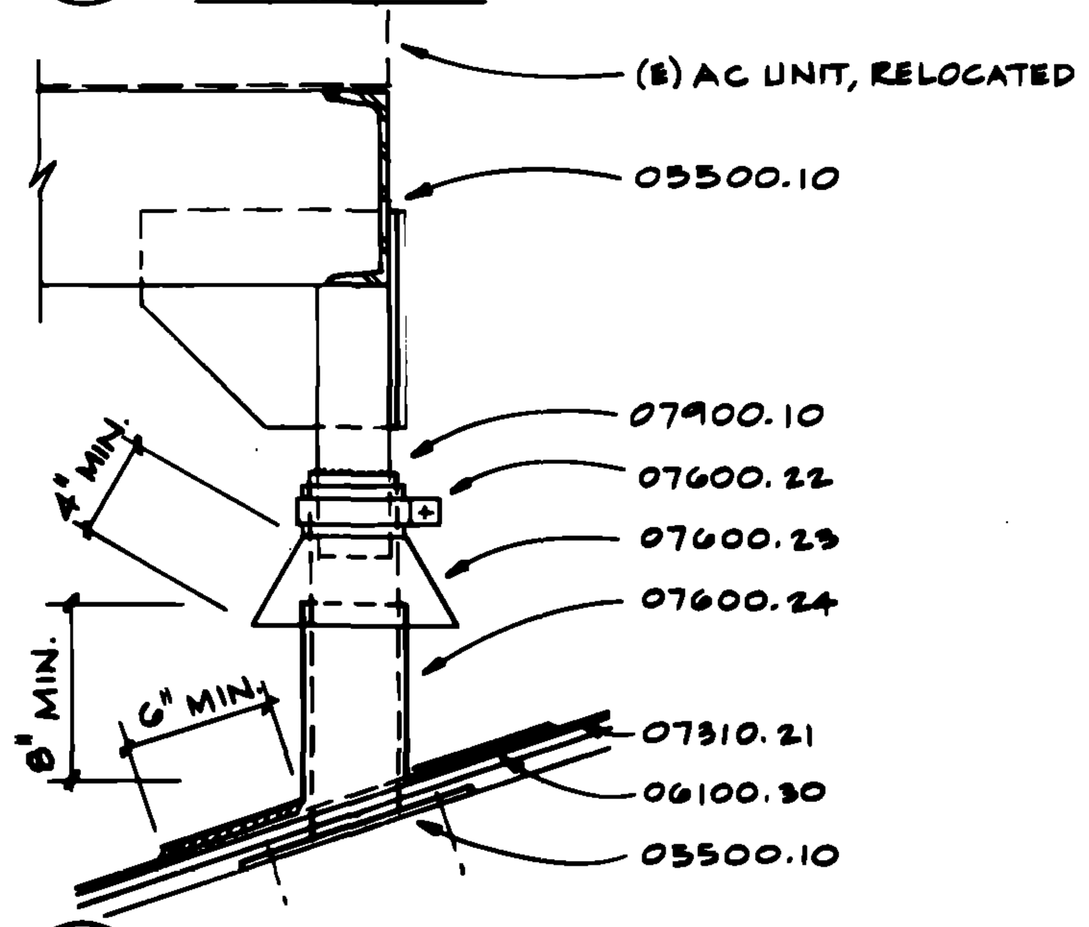
(2 / A10) WALL @ LOW ROOF
SEE SDT-18 — 3" = 1'-0"



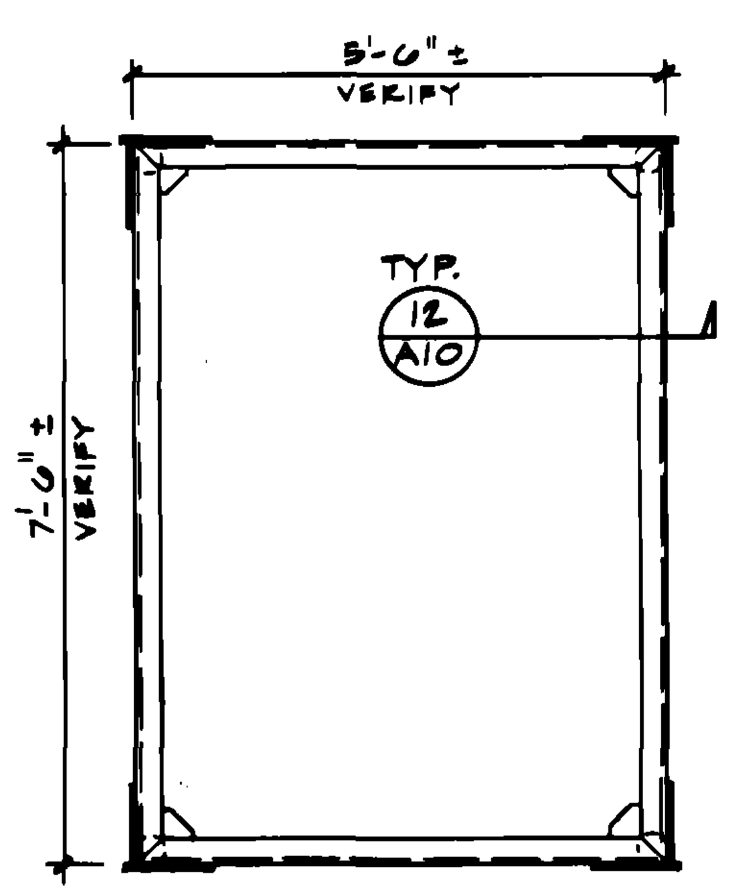
(11 / A10) ROOF VENT FLASHING
SEE SDT-18A — 1½" = 1'-0"



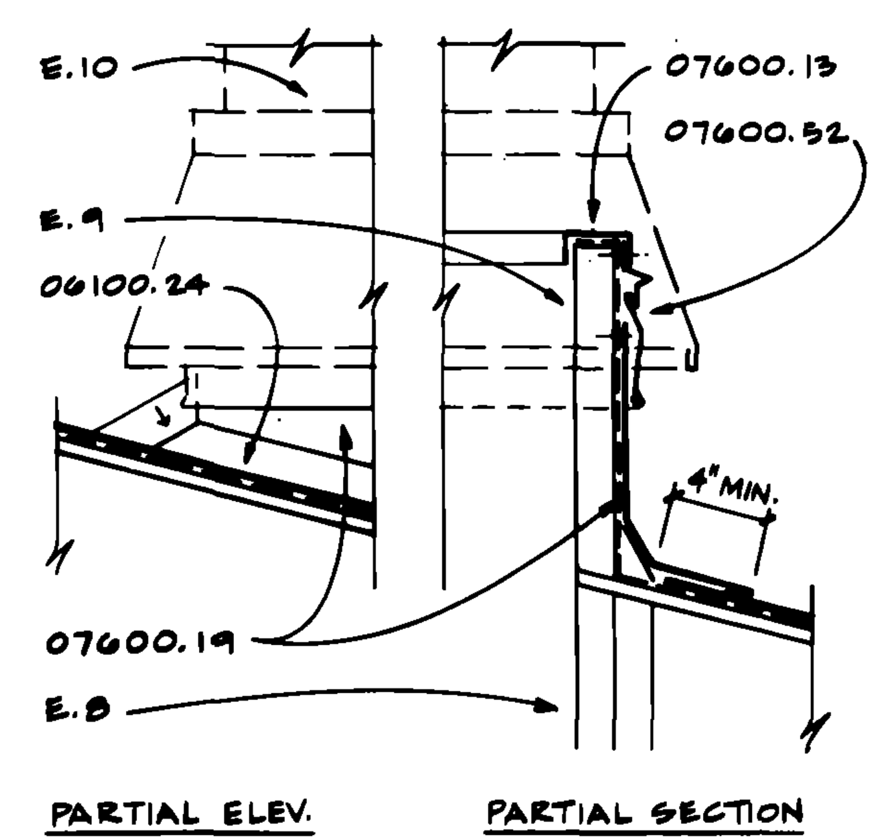
(14 / A10) ROOF DRAIN BELOW (E) DUCTS
SEE SDT-18A — 1½" = 1'-0"



(12 / A10) PIPE LEG @ SUPPORT FRAME
AC UNIT (E) — 1½" = 1'-0"
SEE SDT-18A & SDT-12 (DWGS 1 & E1)



(8 / A10) PLAN OF STL. FRAME
AC UNIT (E) — (NO SCALE)
SEE SDT-12 DWG 1 & E1



(4 / A10) FLASHING @ CURB
KITCHEN HOOD (E) — (NO SCALE)
SEE SDT-18A

NOTES REGARDING DETAILS (CONT.)

07600.11	Stainless steel gutter reinforcing channel at 2'-0" on center. Fasten each channel to existing or new wood framing with stainless steel screws, two per side.
07600.12	Continuous stainless steel cleat.
07600.13	Stainless steel cover flashing.
07600.14	3 inch square new stainless steel rainwater leader. Provide 3 inch diameter round stainless steel rainwater leaders at courtyard only. See building elevations.
07600.15	Formed stainless steel coping.
07600.16	Formed stainless steel valley flashing with cleats.
07600.17	Stainless steel flashing. SEE SDT-18 & SDT-18A
07600.18	Stainless steel step flashing.
07600.19	Stainless steel step flashing at sides. Continuous stainless steel flashing top and bottom. On low side set continuous flashing in bed of plastic cement and lap over asphalt shingles. At high side use elastomeric sheet flashing and lap asphalt shingles over top of continuous flashing as shown on the drawings. Solder corners as required to provide watertight flashings.
07600.20	New stainless steel sleeves and flashings as required by relocated ducts.
07600.21	~~3? x 6 inch~~ stainless steel scupper, 3" x 3" MINMUM
07600.22	1 inch wide stainless steel drawband with stainless steel bolt and lock washer.
07600.23	22 ga. Stainless steel watertight umbrella overlapping jacket by radius of 3 inches.
07600.24	Stainless steel roof jack collar flashing with minimum 6 inch flanges all sides of penetration. On low side set flange in bed of mastic and lap over asphalt shingles. At high side use elastomeric strip flashing and lap asphalt shingles over top of flange as shown on the drawings.
07600.25	Stainless steel rake drip edge.
07600.26	2 inch stainless steel pipe (gutter overflow). Pipe shall project 2 inches above scupper inlet. Weld or solder watertight to stainless steel flashing. Project pipe through soffit and trim with stainless steel flange painted to match ceiling.
07600.27	~~2 x 3 inch~~ 27 SQ IN MIN. CROSS SECTIONAL AREA stainless steel overflow scupper. Inlet shall be 2 inches above scupper inlet.
07600.28	Stainless steel flashing angle at overflow scuppers.
07600.29	Stainless steel pan flashing at scuppers.
07600.30	Gutter drainage: 3 inch square stainless steel tube connected with watertight weld to gutters.
07600.31	Stainless steel Z-flashing behind shingles at steel plates.
07600.40	Slip Sheet.
07600.50	Stucco reglet. SEE SDT-18
07600.51	STX stucco reglet.
07600.52	Two piece counter flashing assembly (similar to STX reglet).
07600.60	Welded or soldered watertight seam.
07900.10	Sealant. SEE SDT 18A
08800.10	Type 1 Glazing (clear float glass)
08800.11	Type 2 Glazing (tempered glass)
09206.10	Metal Lath.
09220.10	New portland cement plaster finish. SEE SDT-16C
09220.11	Control Joint in portland cement plaster.
09220.12	Corner bead in portland cement plaster.
09220.13	Casing bead in portland cement plaster.
09920.14	Continuous vent screed. Paint to match adjacent material.
09900.10	1 coat alkyd primer, two finish coats latex paint (exterior wood). SEE SDT-15A & SDT-15B
09900.11	1 coat alkyd primer, two finish coats alkyd paint (exterior cement plaster and metal). AND CONC BLOCK
09250.10	Gypsum wallboard.
E.1	Existing rainwater leader.
E.2	Existing asphalt paving and new concrete retaining wall. See civil drawings.
E.3	Existing expansion joints in cement plaster.
E.4	Existing mechanical equipment on concrete pad.
E.5	Existing cement plaster wall.
E.6	Existing windows.
E.7	Existing ducts.
E.8	Existing wood framing. Verify size and condition in field.
E.9	Existing mechanical equipment curb.
E.10	Existing kitchen exhaust hood. Remove and reinstall after installation of new flashings and roofing.
E.11	Existing electrical conduits.

RECORD DRAWING
4-1-93

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CITY OF MILPITAS
MILPITAS SENIOR CENTER
Repair and Restoration Project
Phase 2
Project 3368

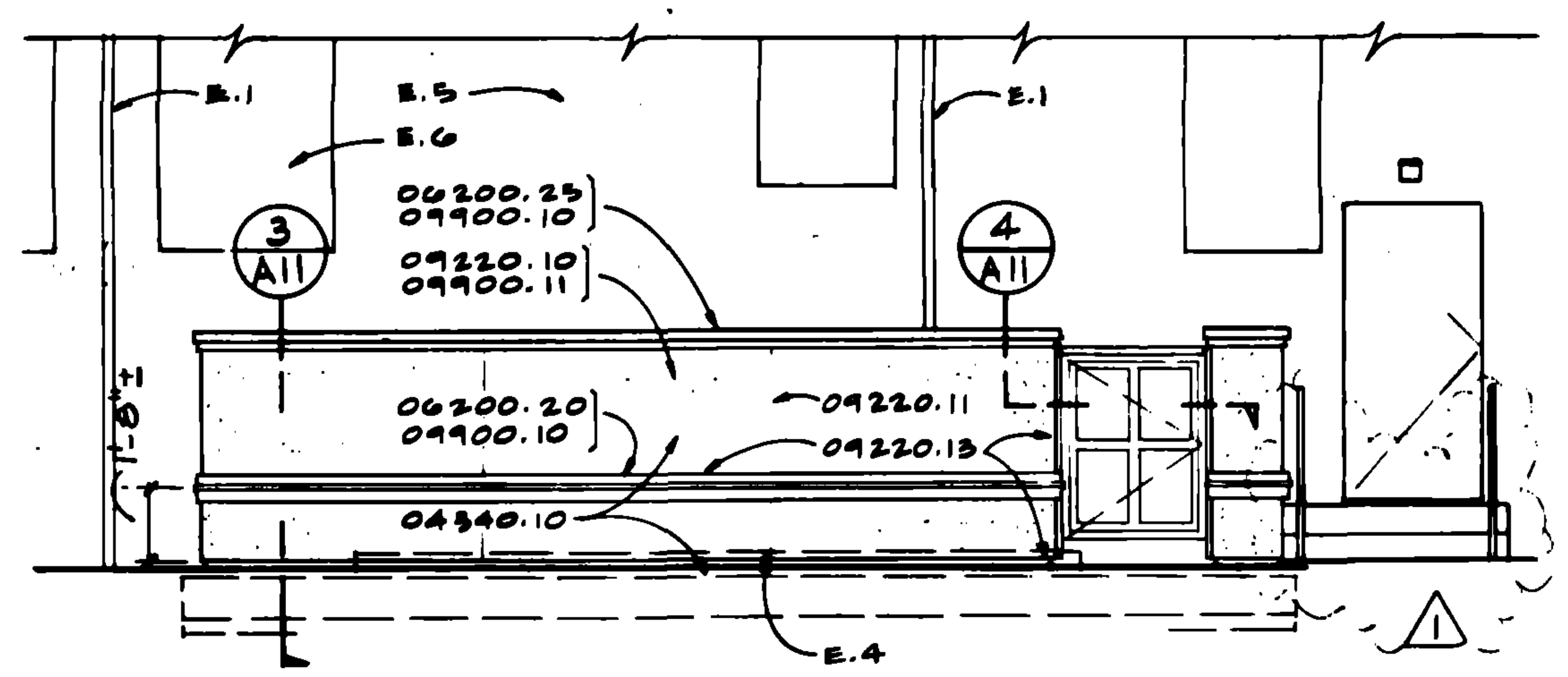
DATE	ACTION	CHECKED
12/4/91	issued for bid	
10/17/91	[illegible]	J.O
7/17/91	ISSUED FOR CLIENT APPROVAL	J.G

ROOF AND GUTTER DETAILS

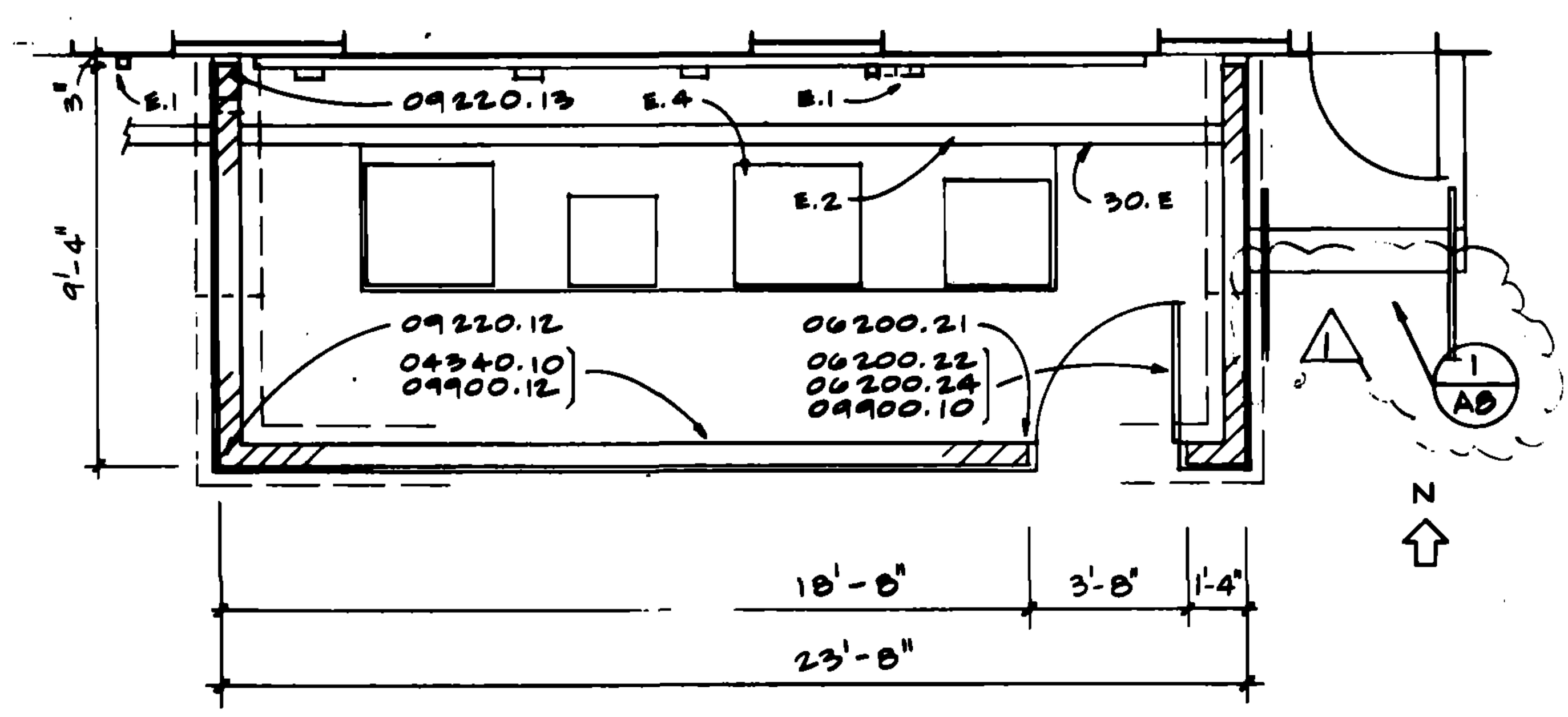
DRAWN PG	DATE 7/17/91
CHECK JG	JOB NO. 0620.010
SHEET	A-10

A-11
12/24

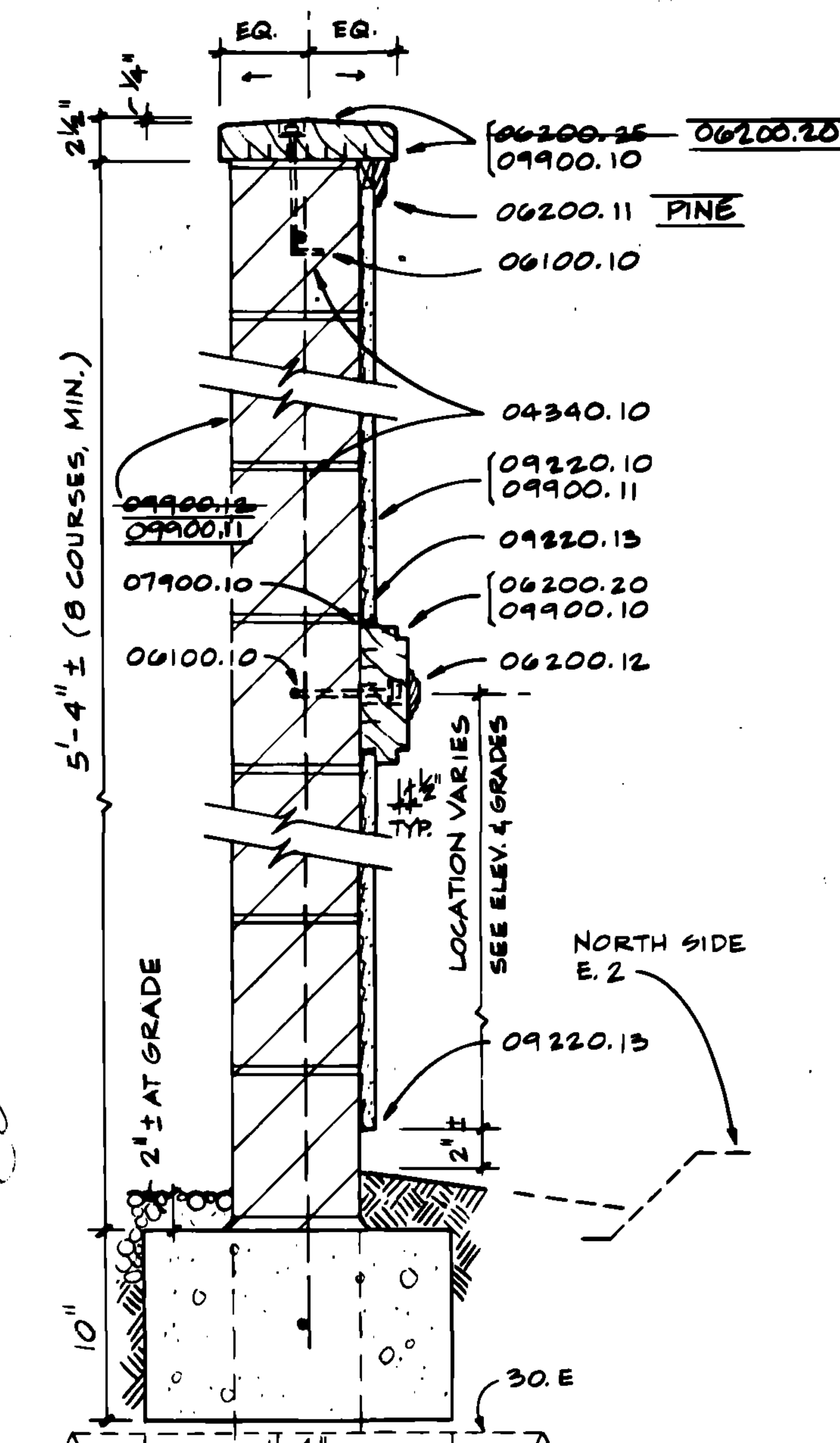
2-913



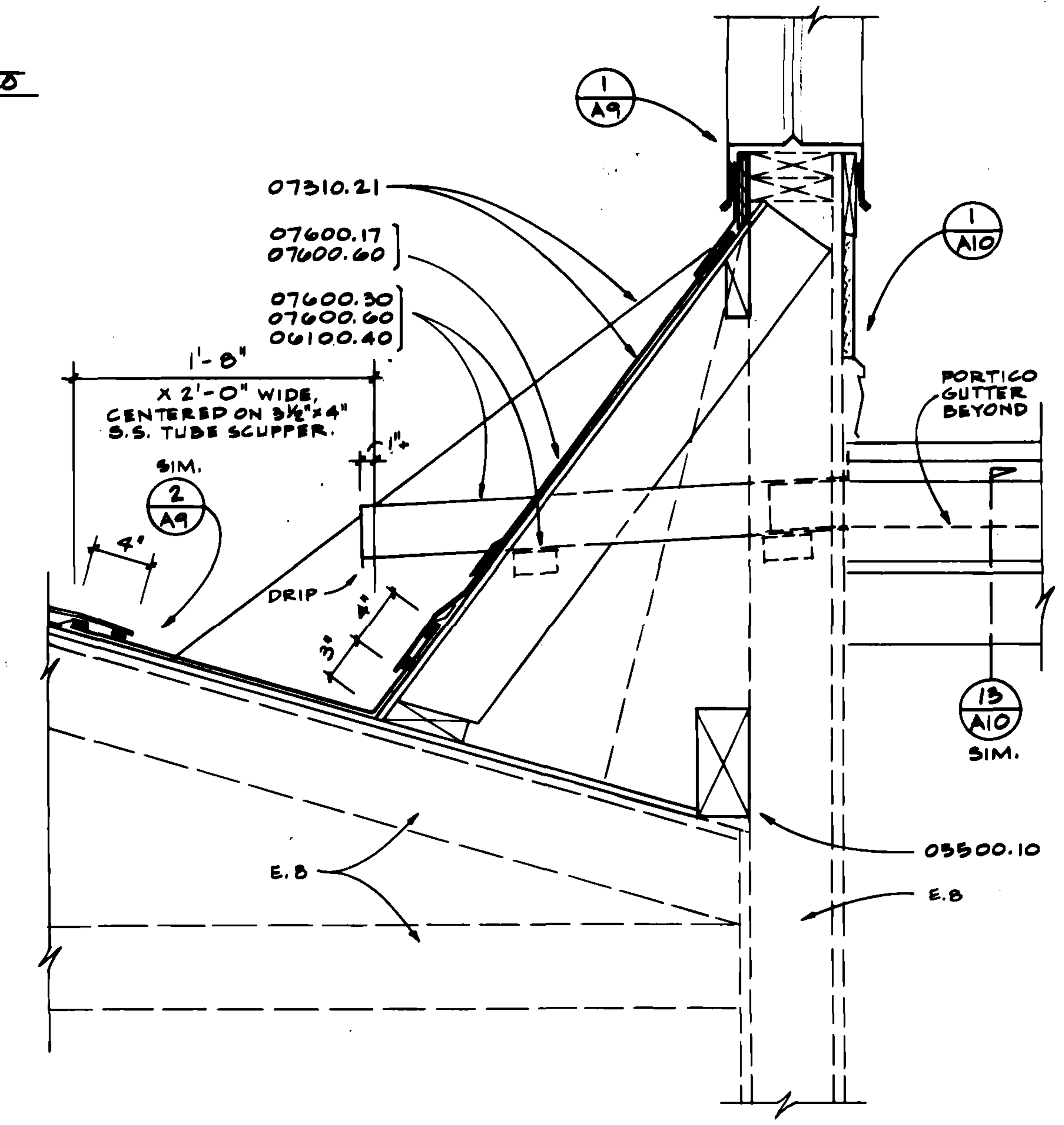
5/A11 ELEV. OF NEW ENCLOSURE SCREEN - SOUTH
1/4" = 1'-0"



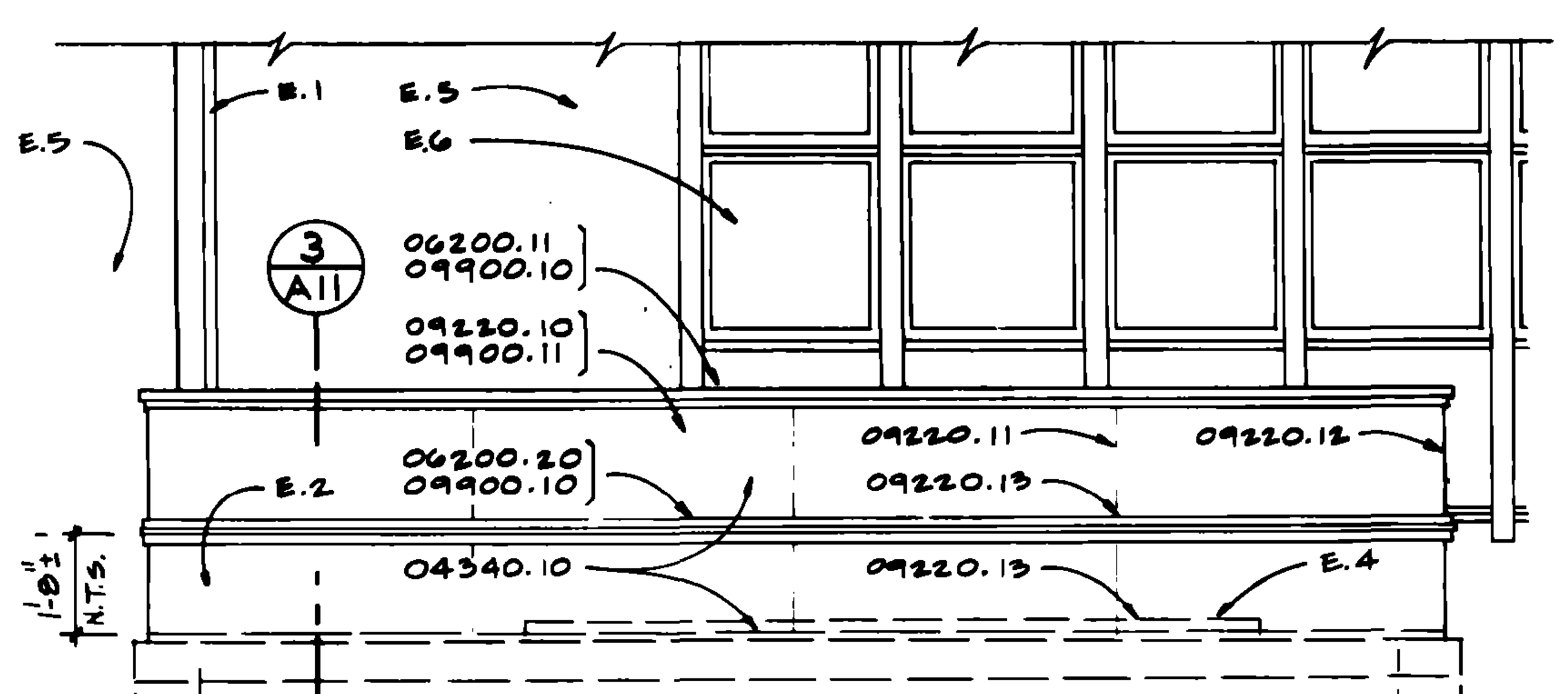
6/A11 PLAN OF NEW ENCLOSURE SCREEN - SOUTH
1/4" = 1'-0"



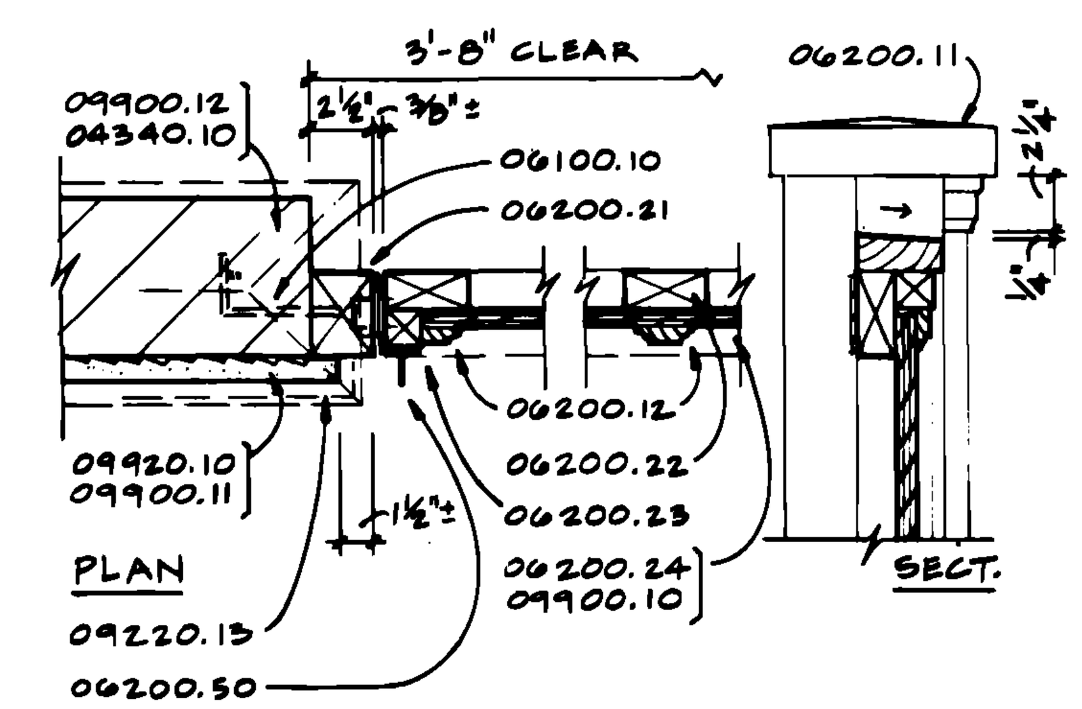
3/A11 EQUIP. ENCLOSURE SCREEN
SECTION
1 1/2" = 1'-0"



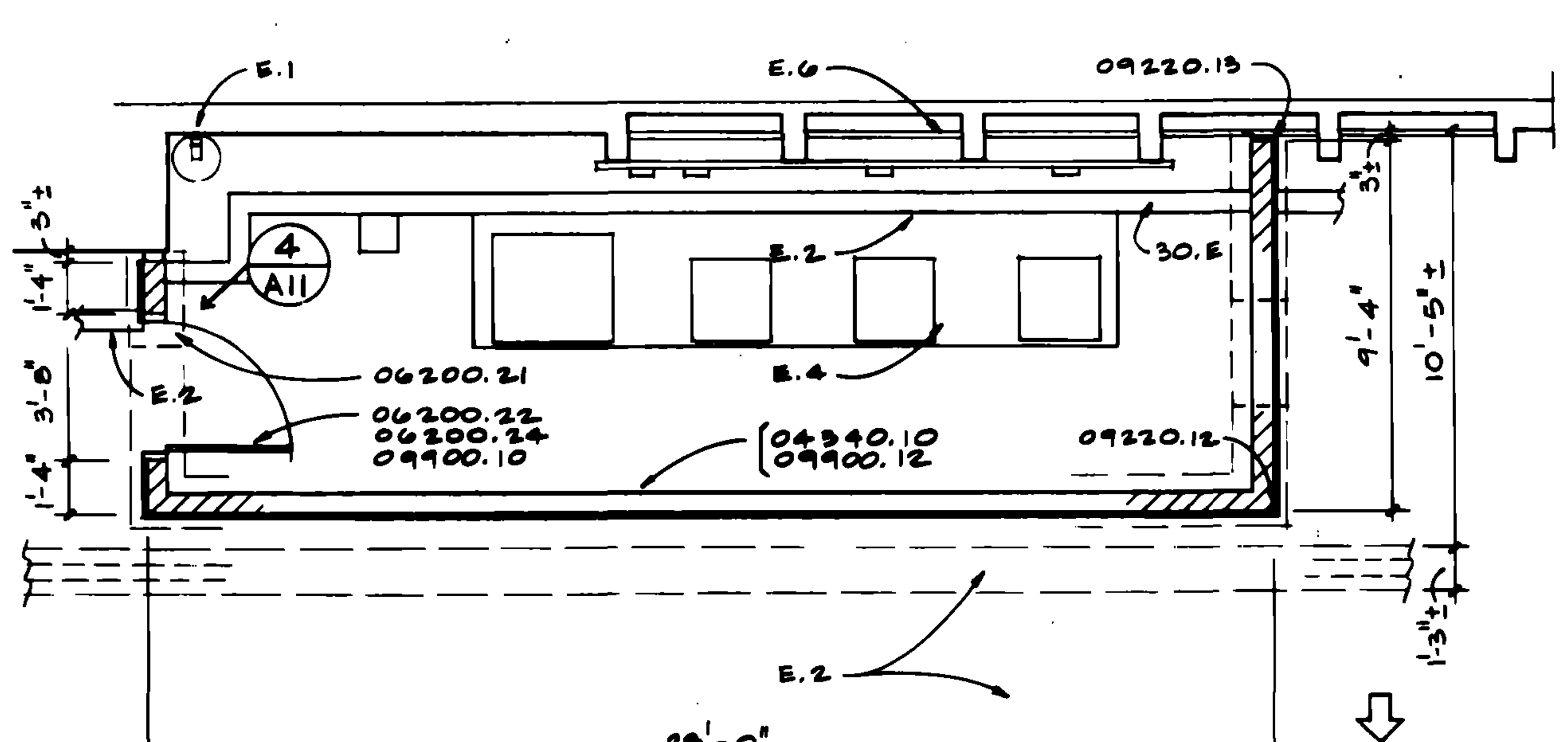
1/A11 SCUPPER @ PORTICO GUTTERS - WEST PARAPET
1 1/2" = 1'-0"



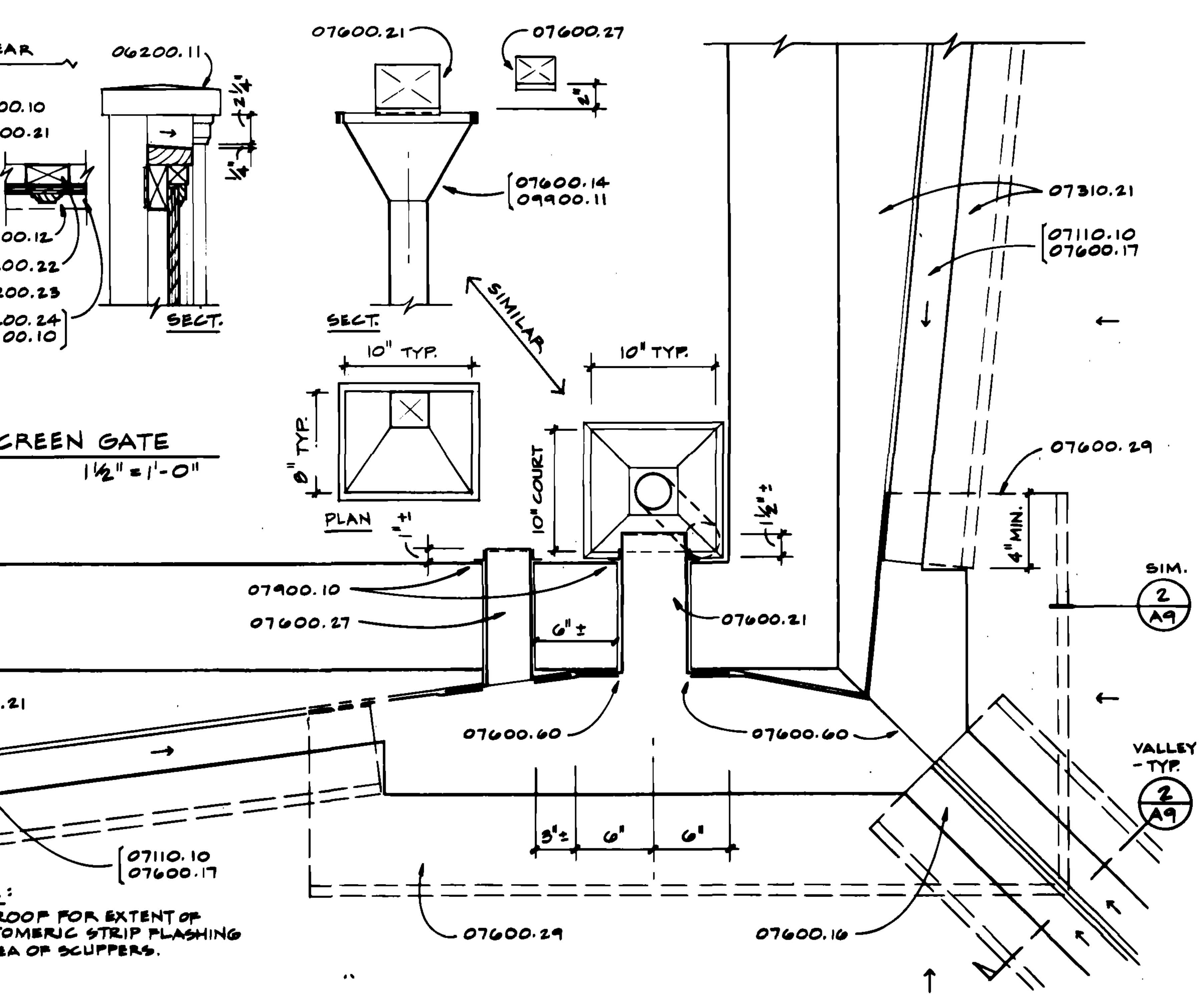
7/A11 ELEV. OF NEW ENCLOSURE SCREEN - NORTH
1/4" = 1'-0"



4/A11 ENCLOSURE SCREEN GATE
PLAN
1 1/2" = 1'-0"



8/A11 PLAN OF NEW ENCLOSURE SCREEN - NORTH
1/4" = 1'-0"



2/A11 PLAN DIAGRAM OF PAN FLASHING @ SCUPPERS
SEE SDT-18A
1 1/2" = 1'-0"

RECORD DRAWING
4-1-93

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CITY OF MILPITAS
MILPITAS SENIOR CENTER
Repair and Restoration Project
Phase 2
Project 3368

DATE	ACTION	CHECKED
2/4/92	REVISION #1, ADDENDUM #1	AS/JG
12/4/91	[illegible] for bid	
10/17/91	bldg [illegible] review	JG
7/17/91	ISSUED FOR CLIENT APPROVAL	JG

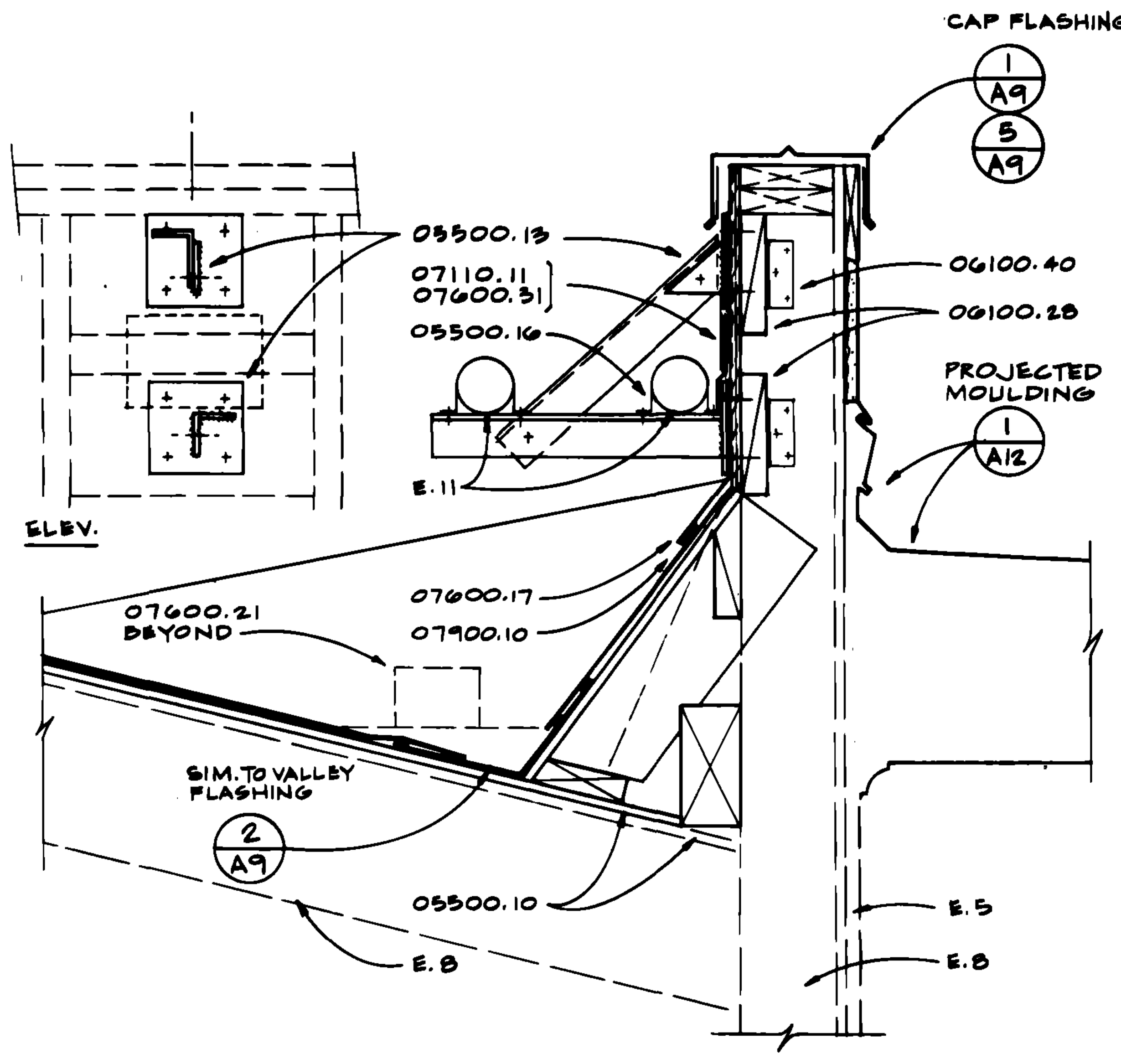
ROOF DETAILS, MECHANICAL EQUIP. SCREENS AND DETAILS

DRAWN PG	DATE 7/17/91
CHECK JG	JOB NO. 0620.010

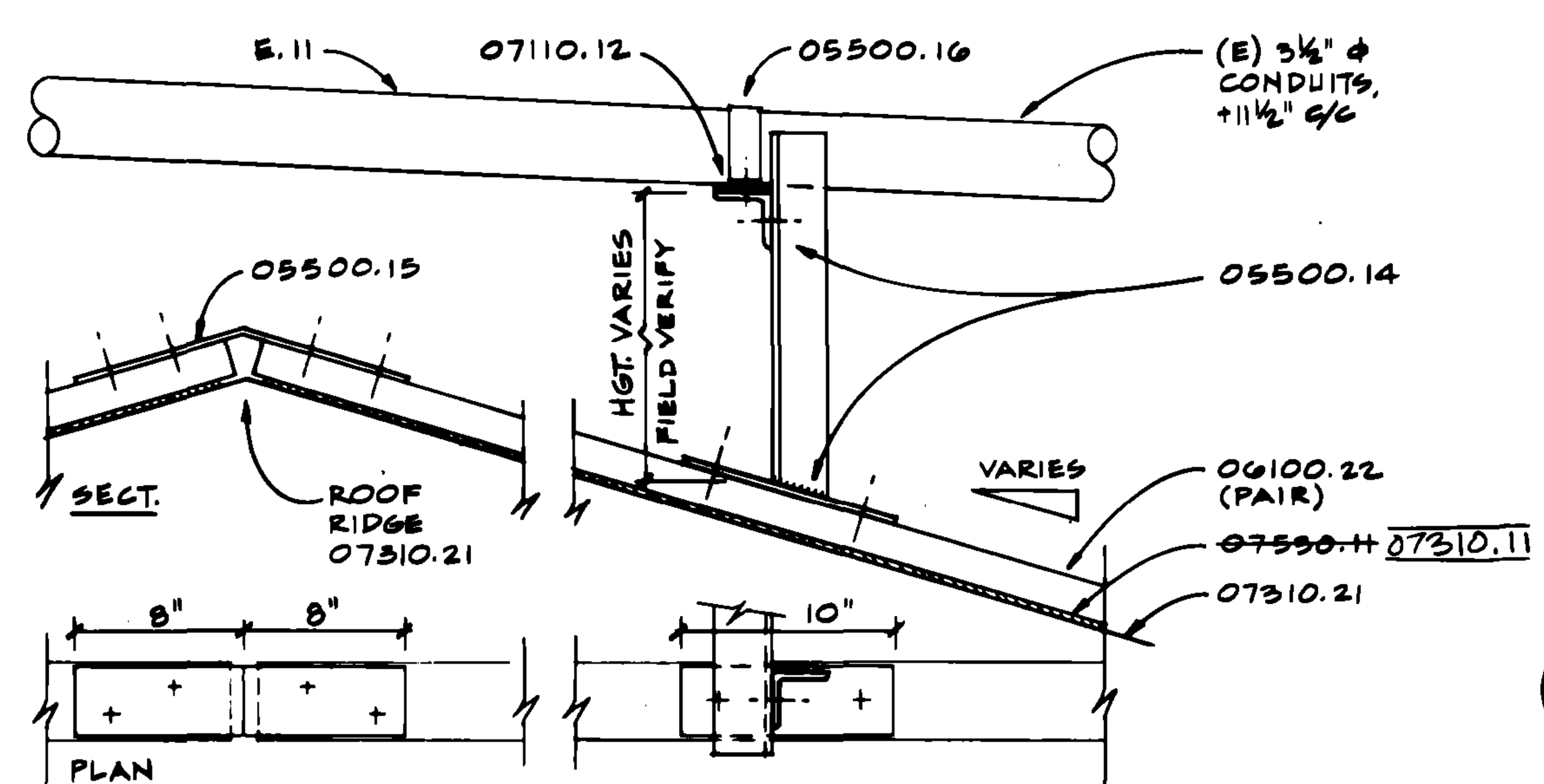
SHEET A-11

A-12
13/24

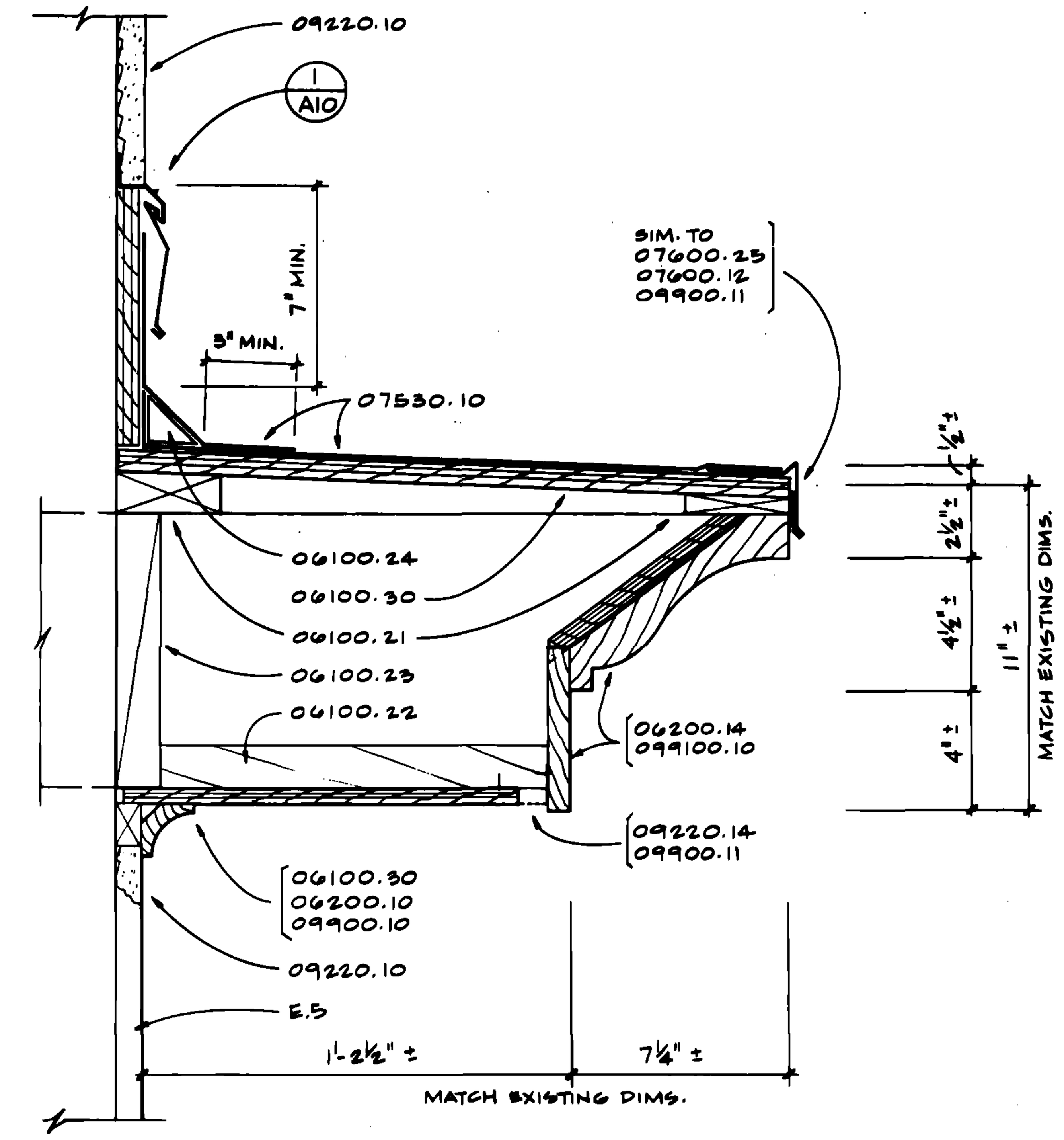
2-9/3



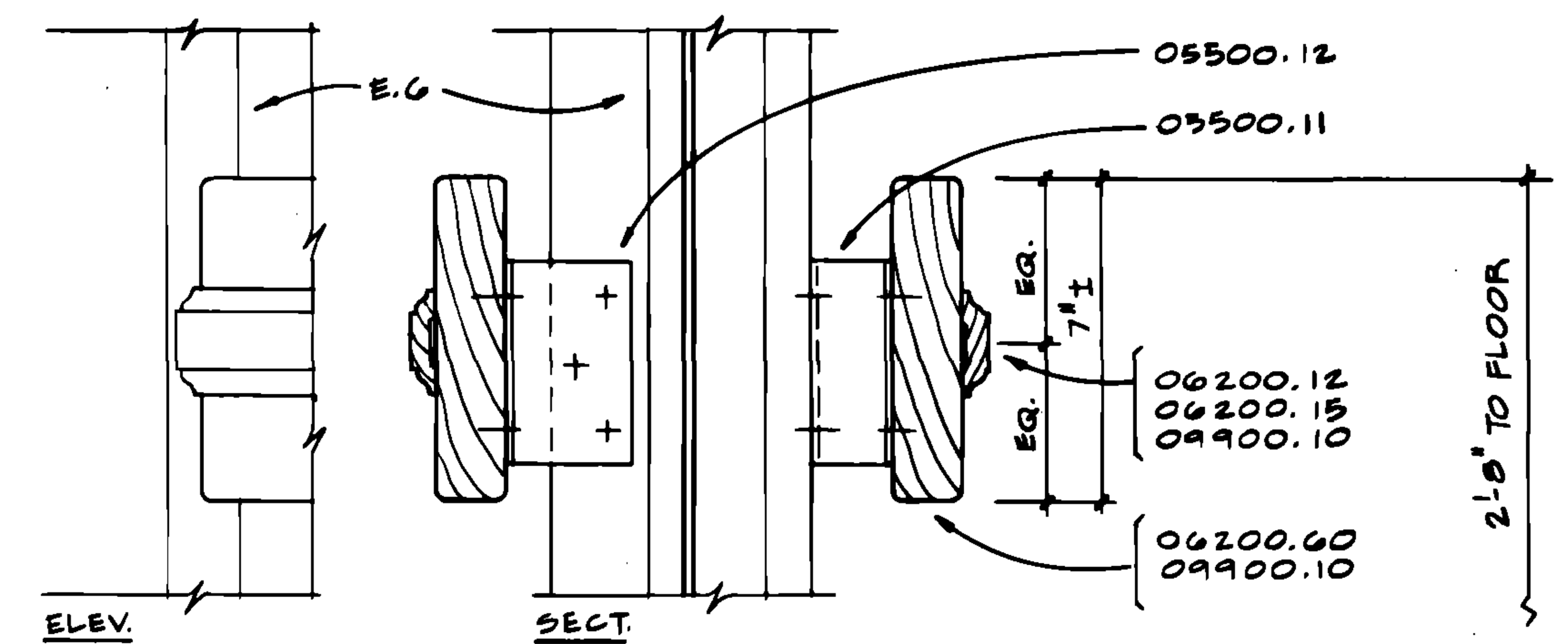
4 A12 CONDUIT SUPPORT BRACKETS
MODIFIED IN FIELD, SEE SDT 12 & SDT 13-E
1½" = 1'-0"



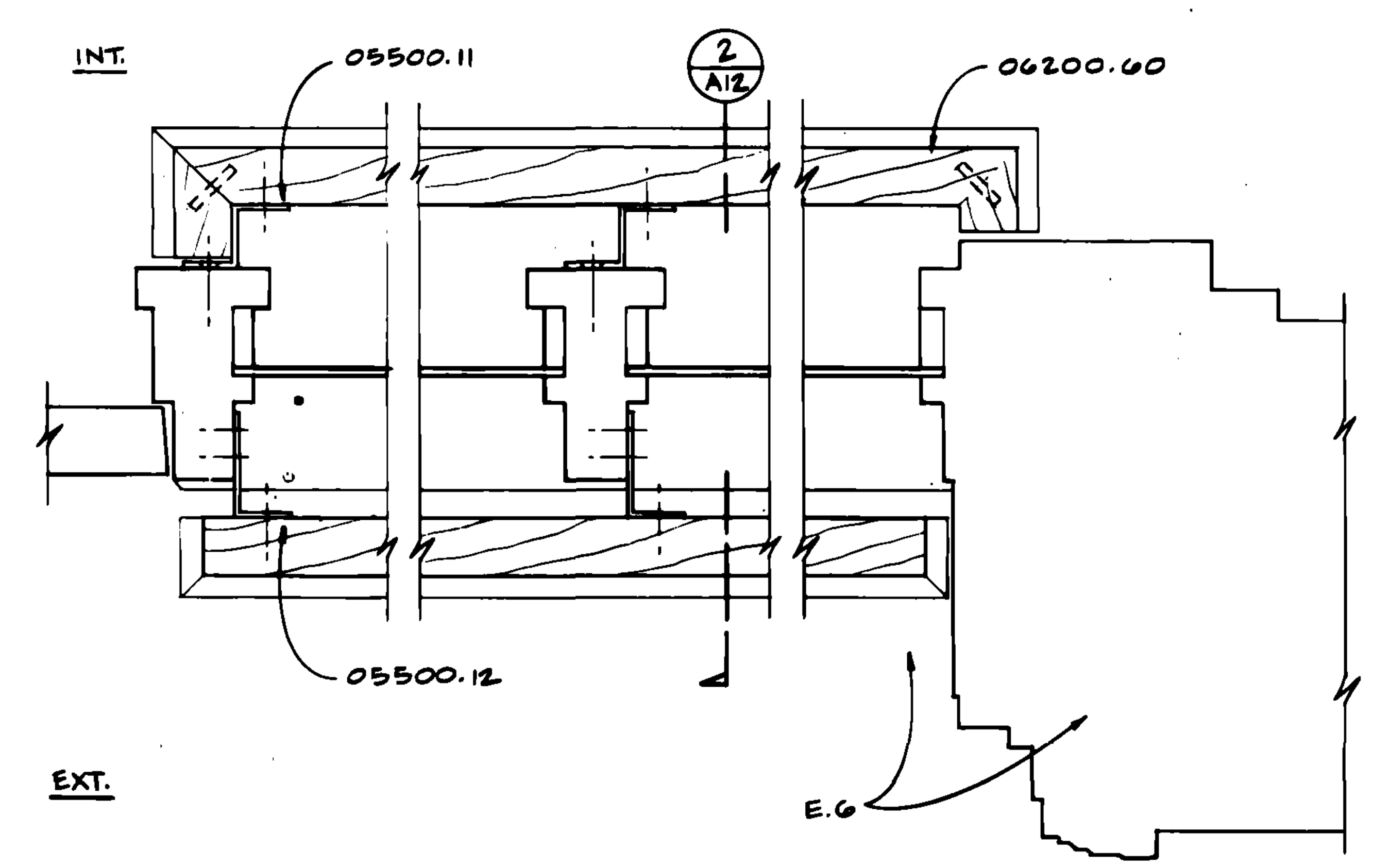
5 A12 CONDUIT SUPPORT CHAIRS
SEE SDT-12
1½" = 1'-0"



1 A12 PROJECTED MOLDING - TYPICAL
3" = 1'-0"



2 A12 CHAIR RAIL SECTION
3" = 1'-0"



3 A12 CHAIR RAIL PLAN - AUDITORIUM
(PARTIAL)
3" = 1'-0"

RECORD DRAWING
4-1-93

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ARCHITECTURE PLANNING RESEARCH
151 Townsend Street
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CITY OF MILPITAS
MILPITAS SENIOR CENTER
Repair and Restoration Project
Phase 2
Project 3368

DATE	ACTION	CHECKED
12/4/91	[illegible]	
10/17/91	[illegible]	J. G.
7/17/91	ISSUED FOR CLIENT APPROVAL	JG

ROOF DETAILS AND MISCELLANEOUS DETAILS

DRAWN	DATE
PG	7/17/91
CHECK	JOB NO.
JG	0620.010

SHEET
A-12

M-1
14/24

2-913

NOTES

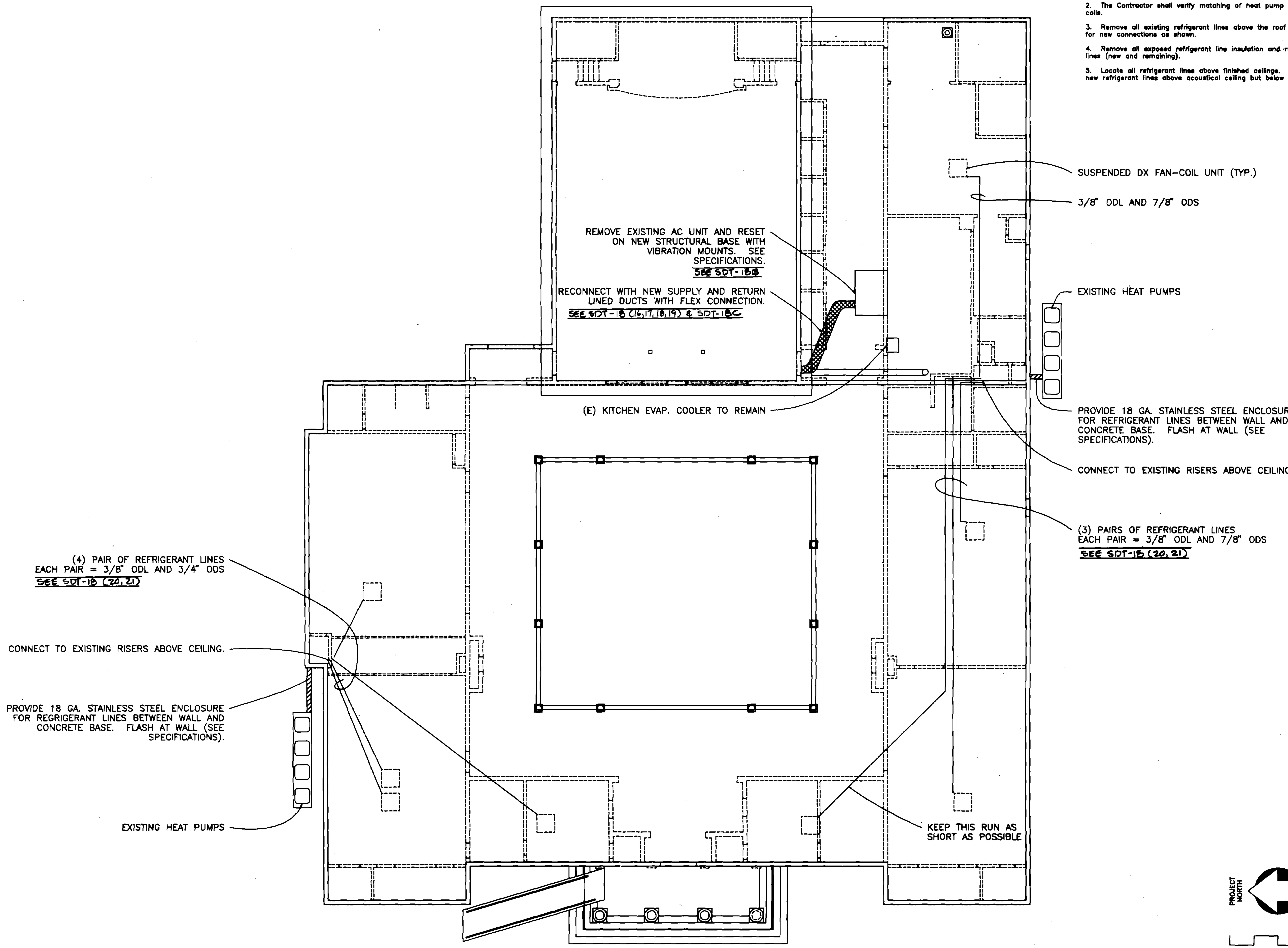
1. Each refrigerant line on the drawing represents a liquid line plus a suction/hot gas line.

2. The Contractor shall verify matching of heat pump with respective fan coils.

3. Remove all existing refrigerant lines above the roof and cut back risers for new connections as shown.

4. Remove all exposed refrigerant line insulation and re-insulate all suction lines (new and remaining).

5. Locate all refrigerant lines above finished ceilings. Wherever possible locate new refrigerant lines above acoustical ceiling but below plaster ceiling.



PROJECT NORTH

1"=8'

0 4 8 20 FEET

RECORD DRAWING
4-1-93

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DATE	ACTION	CHECKED
12/4/91	issued by Bw	
10/17/91	BLDG. INSP. DIV. REVIEW	AZ
7/17/91	CLIENT APPROVAL	AZ

MECHANICAL PLAN

DRAWN JG	DATE 7/17/91
CHECK AZ	JOB NO. 0620.010
SHEET M-1	

C1
15/24

2-913

WINSOR STREET

(E) A.C. PAV.

SANITARY SEWER

(E) 12" CURB & GUTTER

A.C. WALKWAY

PROPERTY LINE

DRIVEWAY

(12.60) CONFORM TO A.C.

P.P. & ANCHOR

(E) 4" C.I. PIPE THRU CURB

UNSURFACED AREA

(N) SCREENWALL - S.A.D.

(E) HEAT PUMP SLAB

12" W. x 6" TH. MOWING STRIP, NON-REINF. DIVIDE INTO 6 SECTIONS WITH I.J.s AND PLACE I.J. AT FTG. FACE. SLOPE OUT FROM FTG. ½".

6"ϕ HOLE THRU WALL

TUNNEL UNDER (E) RAMP FOR CONTINUOUS GUTTER

CUT (E) C.I. PIPE FROM COURTYARD 2" OUT FROM FACE OF FOUNDATION TO DISCHARGE INTO GUTTER

RAMP DN

ELEC. CONDUITS

14' TREE

17' TREE

15' TREE

DH

(E) A.C. PAV.

DRIVEWAY (UNUSED)

(N) 24" WIDE STRUCTURE

AC BERM

CONNECT TO CMP-ARCH HERE I.E. 100 ±

6"ϕ UNDER

10' TREE

LAWN

TYPE "B" INLET I.E. 10.60

7' TREE

(E) CONC. WALK

CLEAN THE (E) C.I. PIPE

COURTYARD

(E) AREA DRAIN

CLEAN THE (E) C.I. PIPE

PAVE W/4" CONC. SCORE @ 5' O.C. E.W. PLACE I.J. AT FTG.

TYPE "B" INLET RIM 12.00 I.E. 11.00

MODIFY GUTTER WIDTH TO AVAIL SPACE.

END GUTTER 12.15

12.20 CONC. PAV.

6' TREE

LAWN

(E) 2½" FIRE SPRINKLER RISER

4"ϕ THRU WALL

30" TREE

8' TREE

15' TREE

PROPERTY LINE

22" H. x 36" W. ARCH CULVERT (METAL) ESTIM. GRADE = 0.0057

(E) CURB & GUTTER

NORTH MAIN STREET

RECORD DRAWING 4-1-93

13.50 - RETURN WALL 12.30 TO BLDG. FACE

(E) 4" C.I. PIPE THRU CURB

(E) GAS METER

(E) BOLLARD

INSERT (N) PIPE INTO BACK OF (E) CATCH BASIN

(N) 6"ϕ

I.E. 10.40

(N) 2 - TYPE "B" INLETS GRATE EL. 12.20

I.E. 10.80

(E) EDGE AC

(N) 6"ϕ @ ⅛" : 1'

I.E. 11.20

TOP OF (E) CONC. AT ± 12.80. SEAL ALL AROUND EDGE

RETURN WALL TO STAIR W/6"ϕ THRU WALL TO C.B. AT I.E. 12.15, T.H. 13.50

REMOVE 24' WIDE OF A.C.

(E) A.C. PAV.

(N) TYP. PLANTER WALL - TOP EL. 13.5 ± (CONFORM TO TOP OF STEP). BOT. OF FOT. EL. 11.30

(N) 3" PERF. PIPE CONN. TO C.B., I.E. 12.15 SEE 4/C2.

(E) SHALLOW PIPES IN JUNCTION BOX FOR ? ?

CONSTR. 2 STD. CITY TYPE II INLETS PER DWG. NO. 464 RIM EL. 13.30 I.E. OUT 11.80

POSSIBLE ROUTE OF (E) 4" SAN. WASTE

PLANTER

12" WIDE x 6" TH. MOWING STRIP, NON-REINF. W/IJ @ 6' MAX. O.C. TOP EL. 13.90, SLOPE ½" OUT.

SLANT STRIP DN. TO 13.50

EQ EQ EQ

(E) HEAT PUMP SLAB

(E) 2½" FIRE SPRINKLER RISER

PERF. PIPE

2 C2 AREA DRAIN / CLEANOUT TYP. 7 PLACES

I.E. 11.30

(E) A.C. PARKING LOT

(N) 4" PERF. PIPE AT I.E. 12.00 ALONG WALL - SEE 4/C2. CONN. PERF. PIPE HERE W/TEE

5 C2

REMOVE (E) C.I. PIPE IN PLANTER

I.E. 10.52

(N) SCREENWALL - S.A.D.

(E) 4" C.I.

BREAK INTO SIDE OF (E) INLET, SET 8" INVERT AT EL. 10.08 PLUG (E) C.I. PIPE

(RIM 11.20) (INV 9.85)

(E) 10"

FOR NOTES AND LEGEND, SEE C2.

1/8" = 1'-0

RUTHERFORD & CHEKENE
Consulting Engineers
303 Second St. #800N
San Francisco, CA 94107
Phone: 415/495-4222

PROFESSIONAL ENGINEER JACK RUSSELL No. 14252 Exp. 6-30-92 CIVIL STATE OF CALIFORNIA

GROSSMANN DESIGN GROUP
ARCHITECTURE PLANNING RESEARCH
151 Townsend Street
San Francisco, CA 94107
415-543-8618

CITY OF MILPITAS
MILPITAS SENIOR CENTER
Repair and Restoration Project
Phase 2
Project 3368

DATE	ACTION	CHECKED
7-17-91	ISSUED FOR CLIENT APPR.	JAR

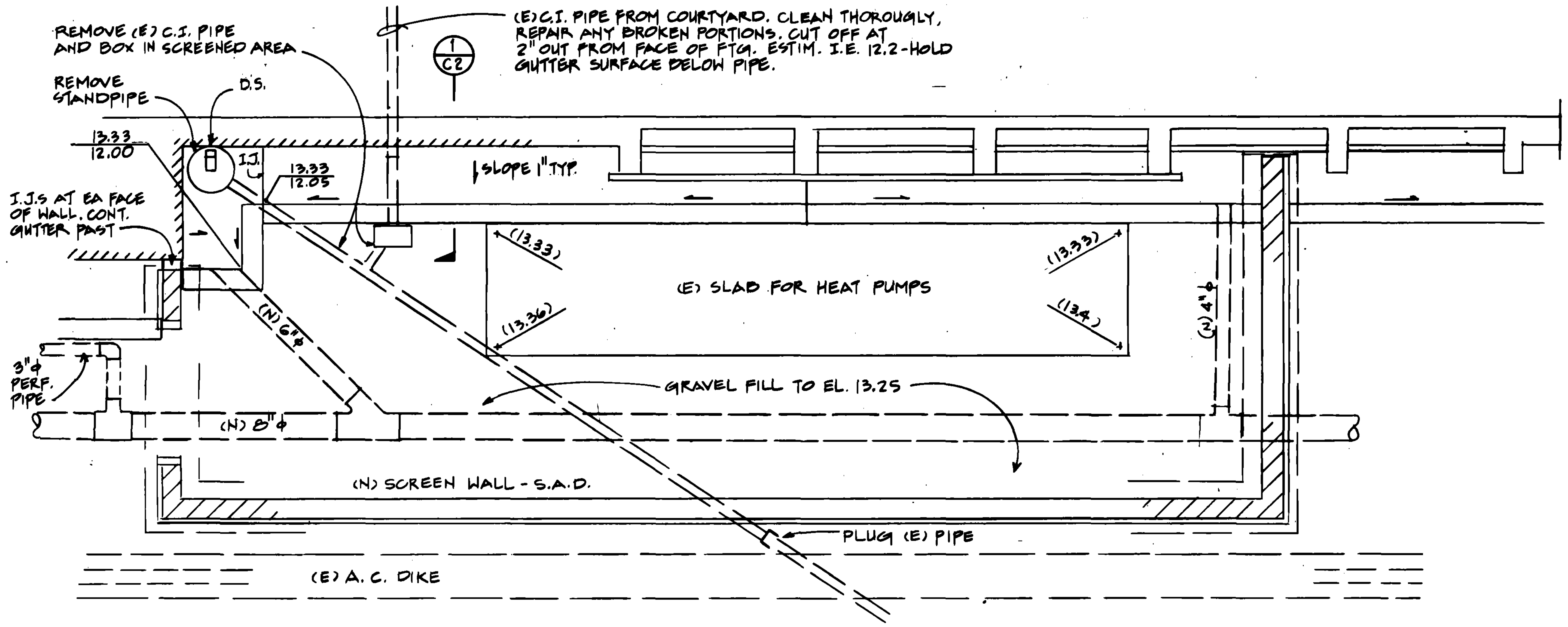
SITE DRAINAGE PLAN

DRAWN KN | DATE 7-17-91
CHECK JAR | JOB NO. 0820.010
SHEET C1

2 - 913

C2
16/24

2-913



PLAN DETAIL 5
1/2" = 1'-0"

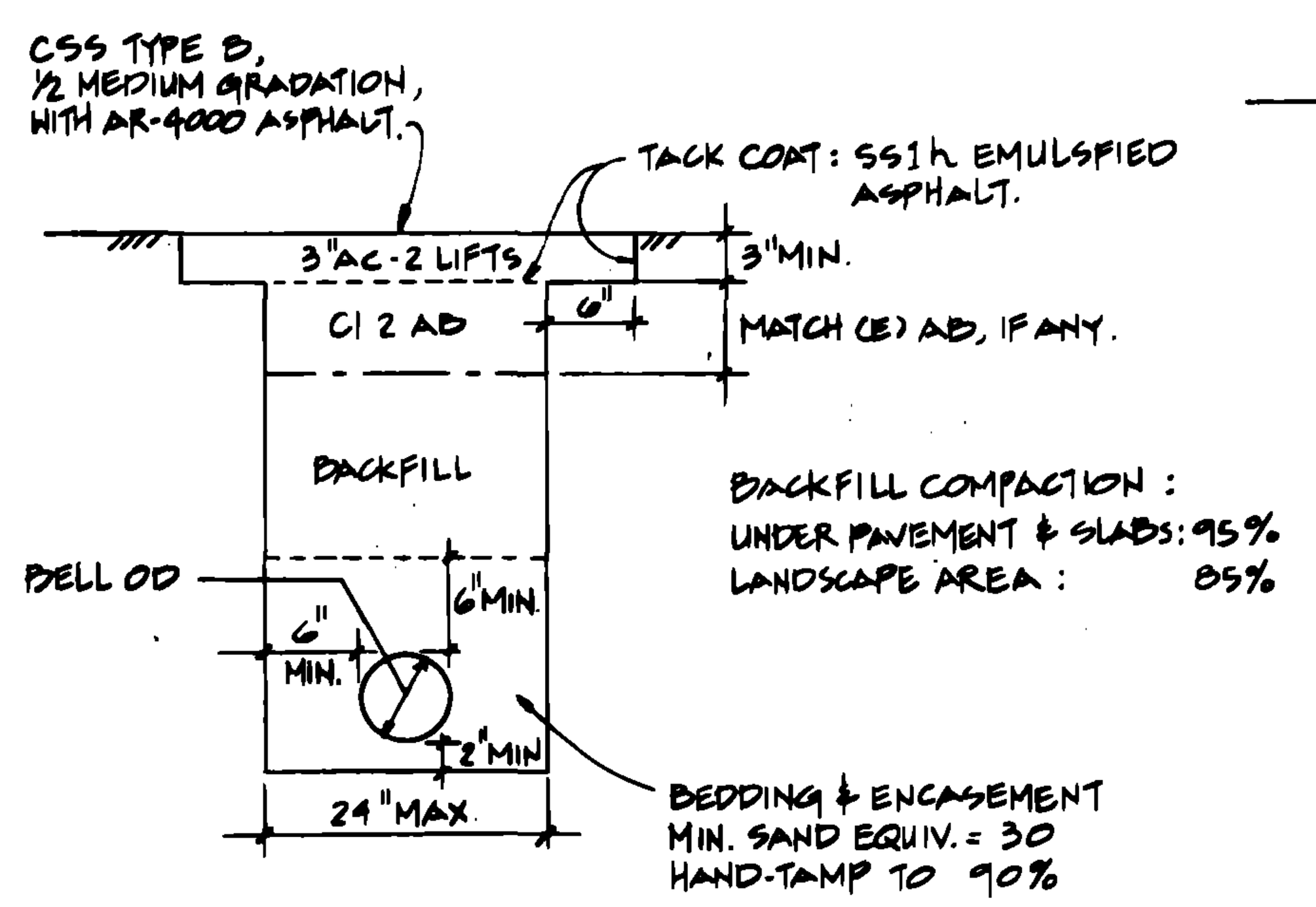
GENERAL NOTES:

1. ALL NEW SOLID WALL PIPE INDICATED SHALL BE CAST IRON SOIL PIPE, ~~BELL AND SPIGOT TYPE~~, OR HUBLESS. SEE SDI-28
2. PERFORATED PIPE SHALL BE 3" DIAMETER SLOTTED CORRUGATED POLYETHYLENE TUBING CONFORMING TO ASTM F405, WITH FACTORY-APPLIED NYLON FILTER FABLIC.
3. SEAL ALL GUTTER JOINTS WITH TWO-PART URETHANE, TYPE M, CLASS 25 SEALANT, COLOR TO MATCH CONCRETE, AND INSTALLED IN STRICT CONFORMANCE WITH MANUFACTURER'S INSTRUCTIONS INCLUDING USE OF PRIMER AND BACKER ROD. PROVIDE 1/2" FIBER JOINT FILLER MATERIAL AT ALL I.J.S.

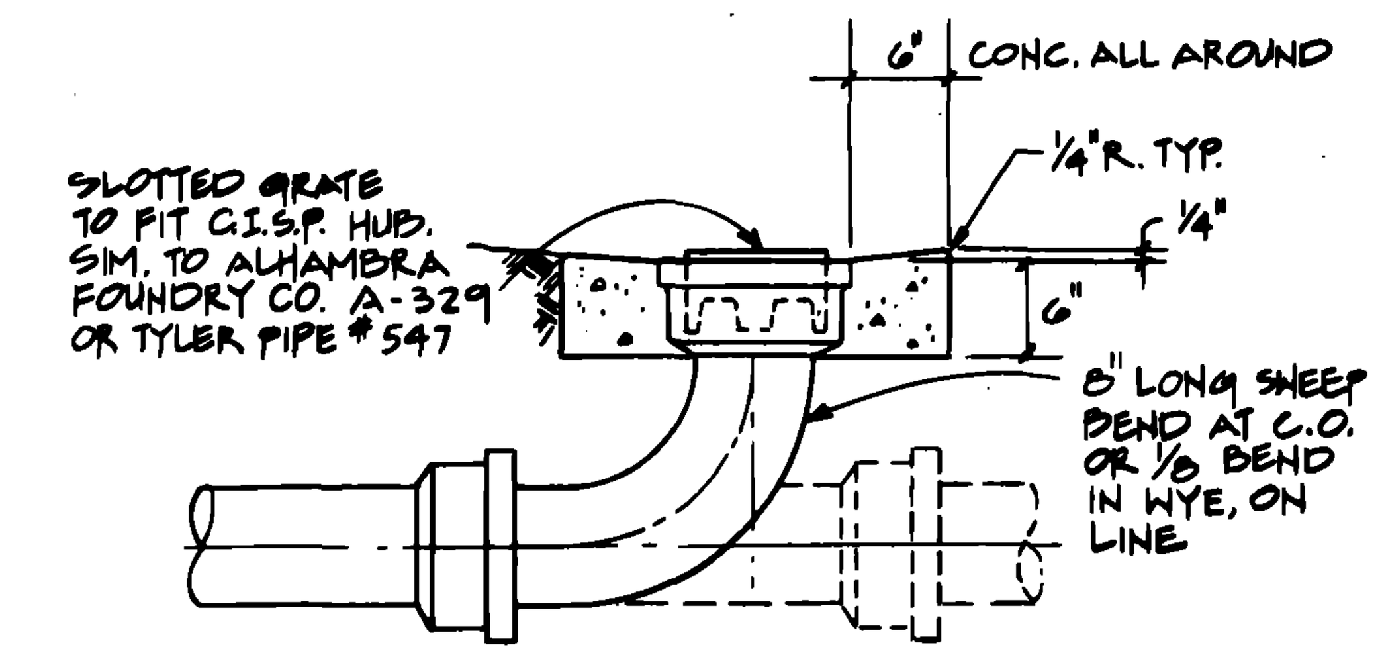
ABBREVIATIONS AND SYMBOLS

(E)	EXISTING
(N)	NEW
6"φ	(SIZE) OF NEW PIPE
I.J.	ISOLATION JOINT
EL.	ELEVATION
I.E.	INVERT ELEVATION
C.I.S.P.	CAST IRON SOIL PIPE
C.I.	CAST IRON
S.A.D.	SEE ARCHITECTURAL DRAWINGS
C.O.	CLEANOUT
13.50 / 12.00	TOP OF GUTTER WALL ELEVATION / BOTTOM OF GUTTER WALL ELEVATION

RECORD DRAWING 4-1-93

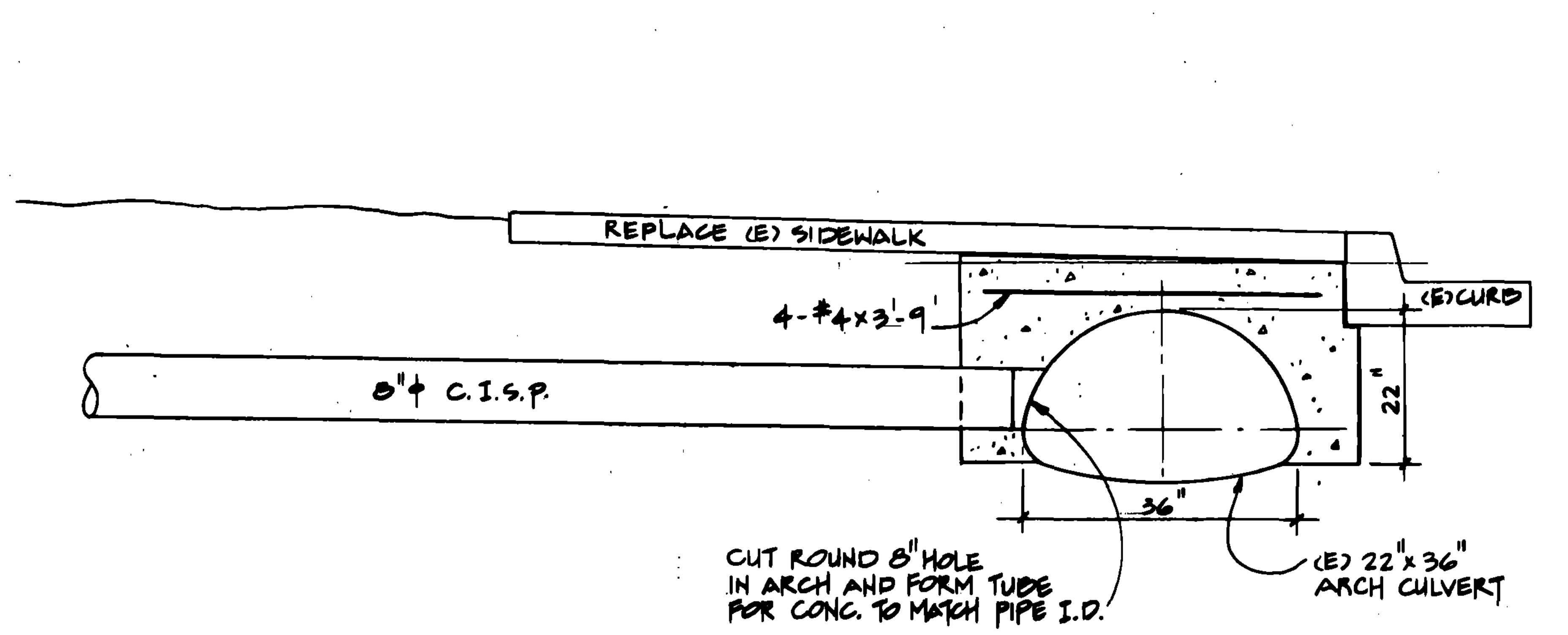


TYPICAL TRENCH
SECTION 11
NO SCALE



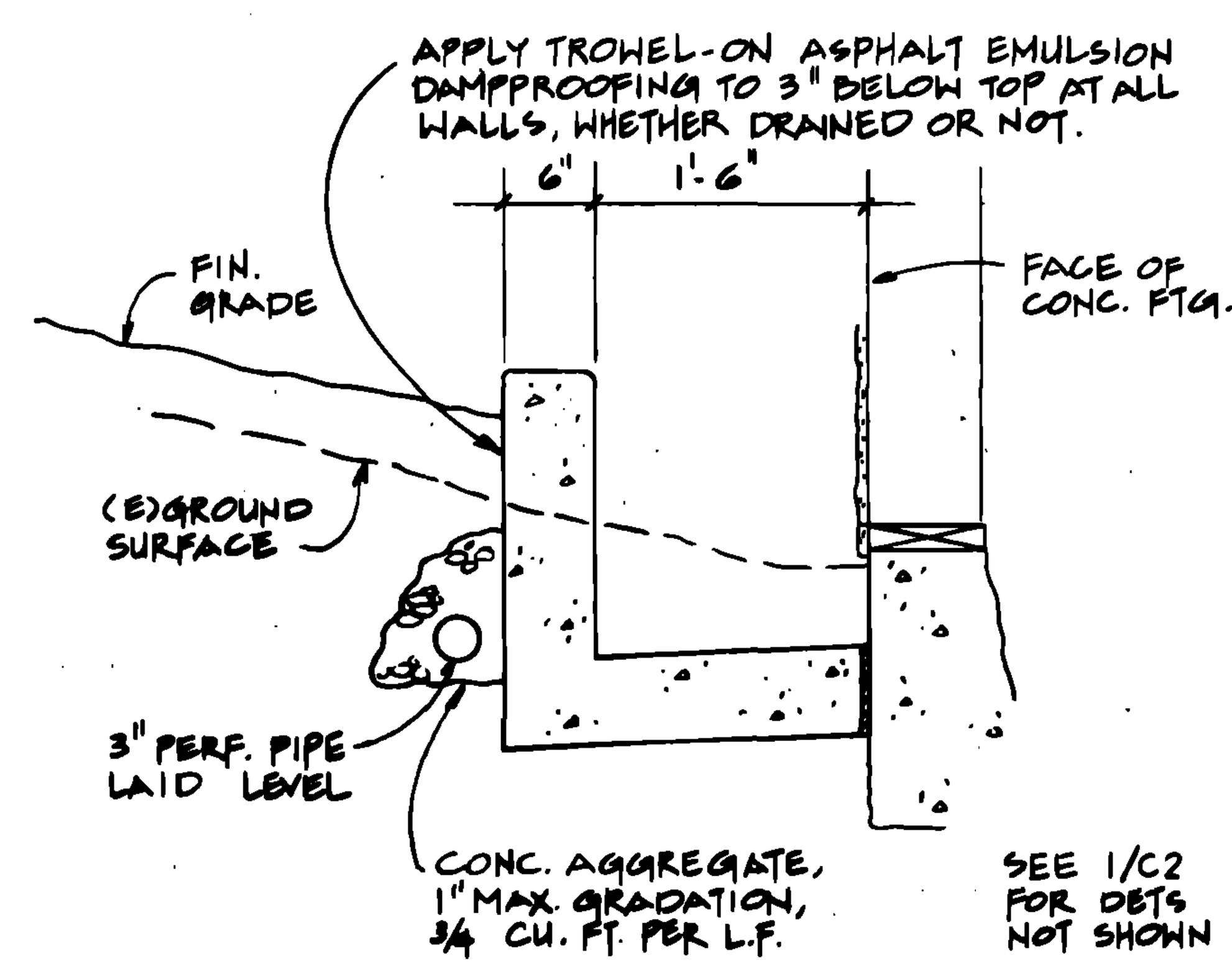
FOR TYPE "B" INLET, USE 6" QUARTER BEND & GRATE

CLEANOUT / AREA DRAIN 2
1" = 1'-0"

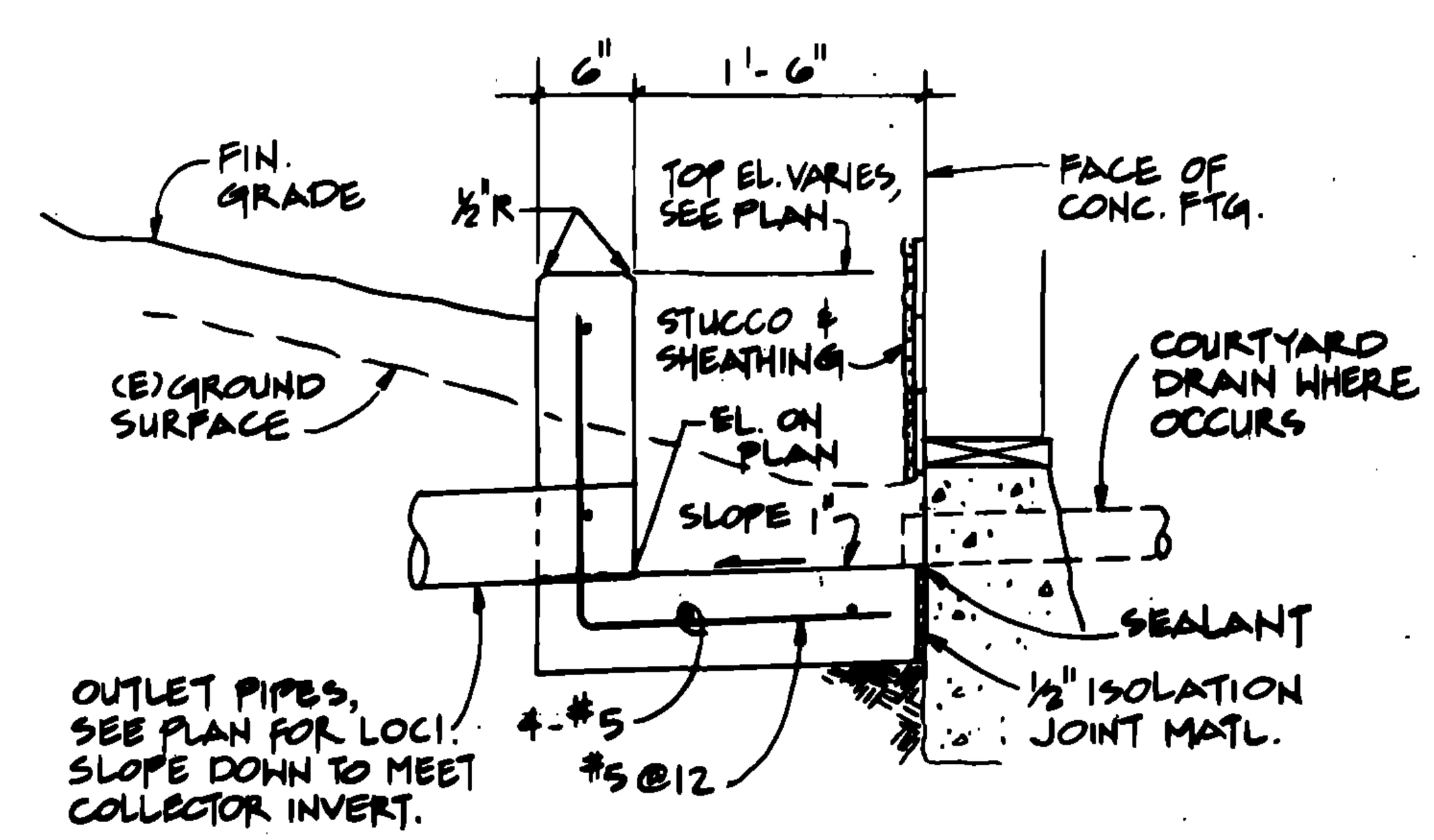


CONFIGURATION OF EXISTING HAS BEEN ASSUMED. MAKE EXPLORATORY EXCAVATION AND NOTIFY ARCHITECT PRIOR TO CONSTRUCTION.

ARCH JUNCTION REINFORCEMENT
SECTION 7
3/4" = 1'-0"



PLANTER DRAINAGE
WHERE SHOWN ON PLAN
SECTION 4
1/2" = 1'-0"



PROVIDE 4 5/8"φ SMOOTH DOWELS WRAPPED ONE END, AT ALL ISOLATION JOINTS.

FOUNDATION GUTTER
SECTION 1
1/2" = 1'-0"

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REGISTERED PROFESSIONAL ENGINEER JACK RUSSELL No. 14352 Exp. 3-31-93 CIVIL STATE OF CALIFORNIA

p1027C

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CITY OF MILPITAS
MILPITAS SENIOR CENTER
Repair and Restoration Project
Phase 2
Project 3368

DATE	ACTION	CHECKED
8-1-91	GENERAL REVISION	
7-17-91	ISSUED FOR CLIENT APPROVAL	JAR

DETAILS

DRAWN KN	DATE 7-17-91
CHECK JAR	JOB NO. 0620.010
SHEET	C2

S1.1 17/24 S1.1 2-9/3

GENERAL NOTES

1. REFERENCE TO OTHER DRAWINGS

See OTHER Drawings for kinds of floor finish, depressions in slab; openings in walls and roof required by doors, windows, ducts, vents, hatches, plumbing, etc...; all types of flashing, inserts, anchors, hangers, etc...embedded in or attached to concrete structure; paving, walks, stairs, ramps, curbs, parapets, terraces, etc..,; exterior grades; roof slabs, crickets and drains.

2. DISCREPANCIES

The Contractor shall compare the structural drawings with the EXISTING CONDITIONS as to layout dimensions and elevations. All discrepancies shall be reported to the ENGINEER for proper adjustment before proceeding with the work.

3. OMISSIONS

In the event that certain features of the construction are not fully shown on the drawings or called for in the general notes, then their construction shall be of the same character as for similar conditions that are shown or called for.

4. FOUNDATIONS

All grading and foundation work shall be accomplished in accordance with the recommendations contained in the UNIFORM BUILDING CODE- 1990 EDITION.

5. CONCRETE

All concrete shall be regular weight (145 PCF) and shall develop a minimum 28 day compressive strength of 3000 psi for all concrete members. All construction joints shall be cleaned and roughened by sandblasting the entire surface exposing the clean aggregate solidly embedded in the mortar matrix. All reinforcing steel, bolts, anchors, sleeves, etc., shall be securely anchored in place before concrete is placed. All reinforcing details, fabrication and installation shall conform to ACI Standard 315, latest edition, except as noted and complete shop drawings shall be submitted to the ENGINEER for his review prior to fabrication. Stagger all splices where practicable and not otherwise detailed. Notify the ENGINEER 48 hours in advance of concrete pours so that reinforcement placement may be OBSERVED.

Minimum concrete protection for reinforcement shall be unless otherwise noted as follows:

a. 3" where concrete is placed against earth.

b. 2" where concrete is exposed to earth but placed in forms.

c. 1-1/2" from exterior face of walls.

d. 3/4" from interior face of walls and face of structural slabs.

e. 1-1/2" from face of beams, girders and columns.

SEE SDT-10 FOR CONC. MIX DESIGN
SEE SDT-6 FOR CONC. REINFORCEMENT SHOP DWGS

All steel reinforcement shall be deformed bars conforming to A.S.T.M. designation A615-Grade 60 except #3 and #4 bars may be grade 40. The General Contractor shall provide temporary bracing and shoring during construction until that portion of the structure has sufficient strength to support safely its weight and loads placed thereon. All bracing and shoring shall be designed to sustain all construction loads, soil loads, lateral loads, and other loads that the structure may be subjected to.

6. STRUCTURAL STEEL

ASTM A36 all shapes and plates.
ASTM A500 Grade B Square tubing.
ASTM A307 machine bolts, anchor bolts and nuts.
AWS A5.5 E70XX electrodes for shielded metal arc welding.
AWS A5.17 F7X-EXXX electrodes for submerged-arc welding.

Metal primer shall conform with federal specification TT-P-645A for shop coat paint. Apply one coat to all surfaces except at areas of field welding, and where embedded in concrete. All butt welded joints shall be AWS and AISC complete penetration welds. Submit shop and erection drawings for review prior to fabrication. Special inspection is required for all welding and high-strength bolting. A welding sequence shall be planned to minimize residual stresses and distortions of individual members and the building frame. All detailing, fabrication, and erection shall comply with A.I.S.C., latest edition.

7. CARPENTRY

A. Lumber Grades: Standard Grading Rules No. 16, West Coast Lumber Inspection Bureau

ITEM	SPECIES	GRADE	
STUDS 2x4 & 2x6	D.F.	No. 2	1200 f
Structural Light Framing 2" to 4" thick 2" to 4" wide	D.F.	No. 2	1450 f
Structural Joists 2" to 3" thick 5" and wider	D.F.	No. 2	1250 f
Structural Beams & Purlins 4" thick 5" and wider	D.F.	No. 2	1250 f
Beams and Stringers 5" and thicker	D.F.	No. 1	1300 f
Posts	D.F.	No. 1	
Sills	P.T.D.F.	No. 2	

B. Minimum connection of wood members shall be in conformance with 1989 UBC table no. 25-Q. All nails shall be domestic common wire nails. Where nails tend to split wood, predrill holes 7/8 nail diameter. Nailing not shown in the drawings or noted in the above reference shall be at least two nails at all contact points using 8d thru 1x material and 16d thru 2x material.

C. Bolts in wood are 3/4" diameter machine bolts A.S.T.M. A307 unless otherwise noted. Bolt holes in wood shall be 1/16" diameter oversize. Unless otherwise noted, provide a 2" O.D. X 9 Ga. standard cut washer under head and nut where bolt is bearing against wood. Bolt threads shall not bear against wood. Tighten all nuts when installed and re-tighten at completion of the job or immediately prior to close-in of the finish work.

D. Metal framing devices shall be as manufactured by Simpson Company, K C Metals Company or approved equivalent. Metal framing devices as shown on the drawings are as indicated in the Simpson Company catalog.

E. Plywood sheathing on the roof shall be Douglas Fir 15/32"-5 ply CDX, PS1-83.

Plywood for wall sheathing shall be Douglas Fir 15/32" -5 ply STRUC. I , PS1-83.

F. Lag bolts are 3/8"ø U.O.N. A.S.T.M. A307. Lag bolts shall be screwed into predrilled holes of the same diameter as the root of the thread. Enlarge hole to the shank diameter for the length of the shank.

G. Glued Laminated Beams shall be combination 24F-V4 Douglas Fir, exterior glue, INDUSTRIAL appearance, per AITC 117-71 Specifications.

SEE SDT-7

8. MASONRY (N.A.)

All concrete masonry units are grade N, Type I and shall conform to ASTM C90 (f'm = psi). Mortar shall conform to the requirements of Type N mortar as defined in the Uniform Building Code and attain a minimum strength of 2,500 psi at 28 days. Grout shall have at least seven sacks of cement per cubic yard and attain a minimum compressive strength of 2,000 psi at 28 days. Grout and mortar shall conform to ASTM C476. Place units in common bond and All steel reinforcement shall be deformed bars ASTM A-615 Grade 40 or Grade 60 as in the concrete notes above. Stagger all splices where practical and lap bars 60 diameters unless otherwise noted. Horizontal reinforcement shall be placed in bond beam units and securely wired to vertical reinforcement. All vertical reinforcement shall be placed prior to installing masonry units. All bolts shall be grouted in place with not less than one inch of grout between bolt and masonry.

9. ROOF TRUSSES

Roof trusses as designated on the roof framing plan shall be prefabricated wood trusses conforming to the dimensions and spacings shown. All roof trusses shall be designed and constructed in accordance with AITC and UBC requirements and shall be designed for all dead plus live or lateral loads as shown in the plans and details. The truss Vendor shall submit to the Architect for his review complete design calculations and shop drawings for all roof trusses signed by a State of California Registered Civil or Structural Engineer retained by the Vendor. Comments generated by this review shall be resolved prior to commencement of fabrication of the roof trusses. These shop drawings shall show truss details, erection locations, connections, blocking, bracing, and any other information pertinent to the design or installation of the roof trusses.

TESTING AND INSPECTION:

This project is subject to Local Building Department Inspections per UBC section 305. The following Testing and Special Inspection services shall be performed by a qualified Testing Agency in accordance with UBC section 306: Submit reports to the ENGINEER and others per the specifications.

A. FOUNDATIONS:

All foundation excavation, backfilling, and slab sub-grades shall be inspected by the Geotechnical Consultant.

B. CONCRETE REINFORCING:

Inspect placement for all reinforcing steel.

C. CONCRETE:

1. Review concrete mix design.
2. Inspect concrete placement.
3. Make slump tests.
4. Cast 3 cylinders per 100 cy or fraction thereof for testing at 7 and 28 days.
5. EPOXIED BOLTS AND REINFORCING STEEL; SEE 8/S2.1

~~D. STRUCTURAL STEEL:~~

~~1. Review Mill Certificates.~~
~~2. Test unidentified steel.~~
~~3. Visual inspection of all shop and field welding.~~

~~E. STRUCTURAL MASONRY:~~

~~1. Design of masonry walls on this project is based upon allowable working stress values assuming continuous Special Inspection per section 2406 of the 1985 UBC.~~
~~2. Make mortar and grout tests from 3 specimens each day of mortar placed that day.~~
~~3. Inspect placement of all reinforcing steel.~~

F. GLUED-LAMINATED BEAMS:

1. Submit AITC Certificates of Compliance.

BASIS OF DESIGN

⚠ UNIFORM CODE FOR BUILDING CONSERVATION

Seismic Zone 4: Z=0.4, I=1.0, KCS = 0.133

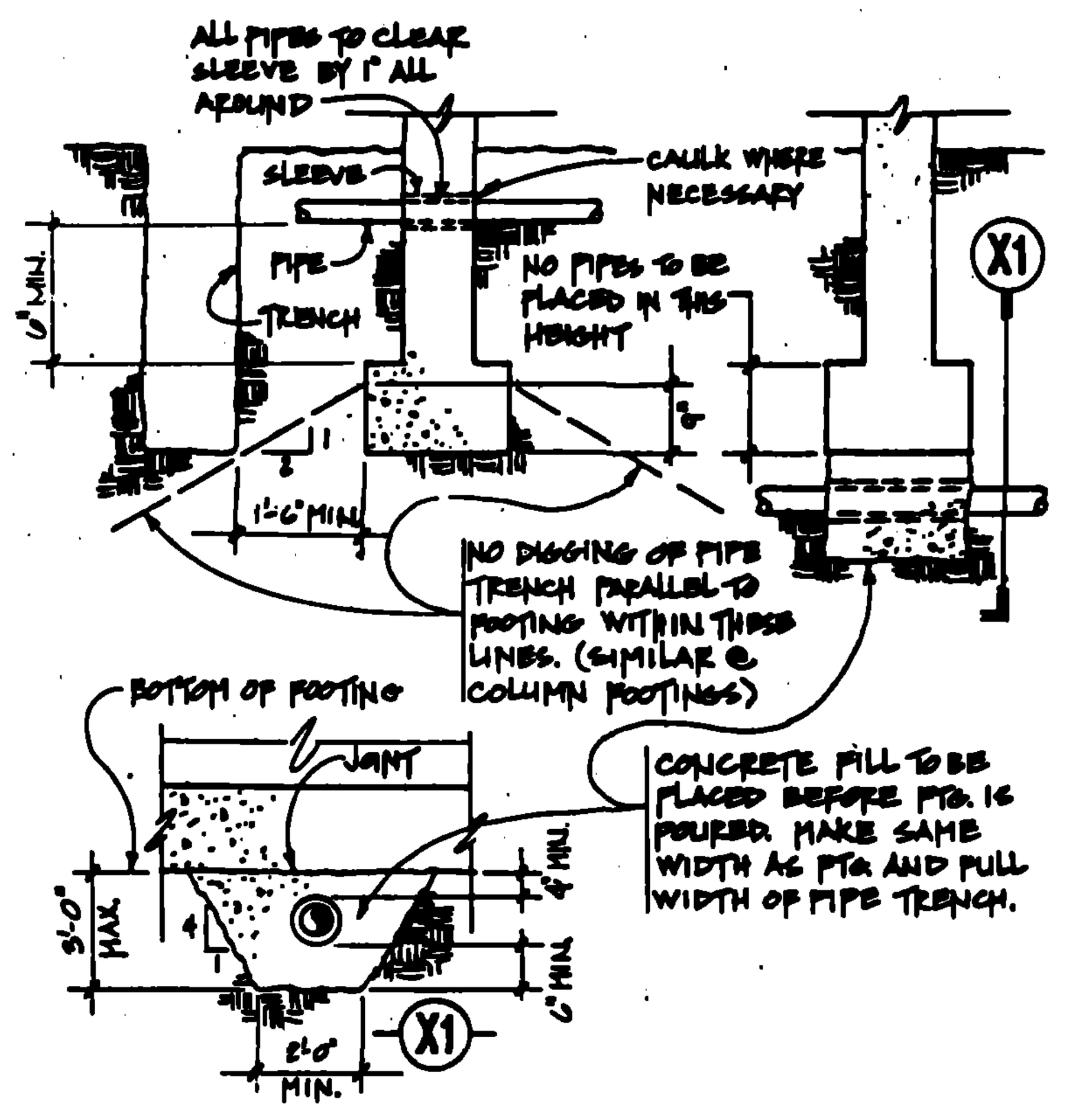
Basic Wind Speed = 70 MPH

Roof Live Load = 16 PSF

Floor Live Load = 50 PSF
= 100 PSF (AT AUDITORIUM)

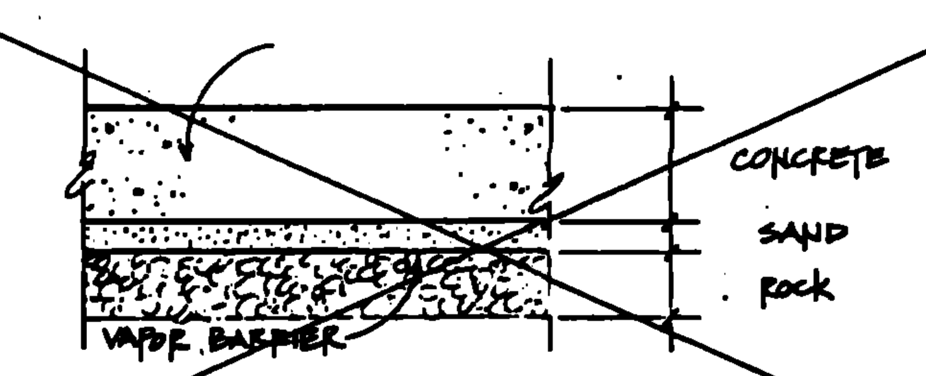
ABBREVIATIONS

&	And
∠	Angle
℄	Centerline
ø	Diameter or Round
ALT.	Alternate
ARCH.	Architectural
A.B.	Anchor Bolt
BLDG.	Building
BLKG.	Blocking
BM.	Beam
BOT.	Bottom
BSMT.	Basement
C.G.S.	Center Gravity of Steel Reinforcing
C.J.	Construction Joint
CLG.	Ceiling
CLR.	Clear
COL.	Column
CONC.	Concrete
CONT.	Continuous
C.P.	Complete Penetration
CTSK.	Countersunk
CTR.	Center
DBL.	Double
DET.	Detail
D.F.	Douglas Fir
DIA.	Diameter
DIM.	Dimension
DN.	Down
D.O.	Ditto
DRWG.	Drawing
(E)	Existing
EA.	Each
E.F.	Each Face
E.J.	Expansion Joint
E.N.	Edge Nailing
ELEV. or EL.	Elevation
ELEVR.	Elevator
EQ.	Equal
EXP.	Expansion
EXT.	Exterior
E.W.	Each Way
F.B.	Flat Bar
FDN.	Foundation
FIN.	Finish
FLNG.	Flange
FLR.	Floor
FT.	Feet or Foot
FTG.	Footing
FUT.	Future
GA.	Gauge
GLB	Glu-Lam Beam
G.F.R.C.	Glass Fiber Reinforced Concrete
GND.	Ground
GR.	Grade
H.C.	Hollow Core
HD.	Holdown
HDR.	Header
HK.	Hook
HORIZ.	Horizontal
HGT.	Height
H.S.B.	High Strength Bolt
INT.	Interior
JT.	Joint
M.B.	Machine Bolt
MAX.	Maximum
MECH.	Mechanical
MEMB.	Membrance
MFR.	Manufacturer
MIN.	Minimum
MISC.	Miscellaneous
MLB	Mini-Lam Beam
MTL.	Metal
(N)	New
N.A.	Not Applicable
N.I.C.	Not in Contract
NO.	Number
NOM.	Nominal
N.T.S.	Not to Scale
O.A.	Overall
O.C.	On Center
O.D.	Outside Diameter
OPNG.	Opening
OPP.	Opposite
PL.	Plate
PLY.	Plywood
P.P.	Partial Penetration
PR.	Pair
P.T.	Post-Tensioned
P.T.D.F.	Pressure Treated Douglas Fir
RAD.	Radius
REF.	Reference
REINF.	Reinforced or Reinforcing
REQ'D	Required
S.A.D.	See Architectural Drwg
SHT.	Sheet
SIM.	Similar
SPEC.	Specification
SQ.	Square
STD.	Standard
STL.	Steel
SYM.	Symmetrical
S.O.G.	Slab on Grade
T. & B.	Top and Bottom
THK.	Thick
T.O.F.	Top of Framing
T.O.S.	Top of Slab
TS	Structural Tube
TYP.	Typical
U.O.N.	Unless Otherwise Noted
U.B.C.	Uniform Building Code
VERT.	Vertical
W or WF	Wide Flange Steel Beam
W/	With
W/O	Without
W.W.F.	Welded Wire Fabric
W.P.J.	Weakened Plane Joint
2x	Nominal Width-Dimension Lumber
16d	Nail Size (penny)

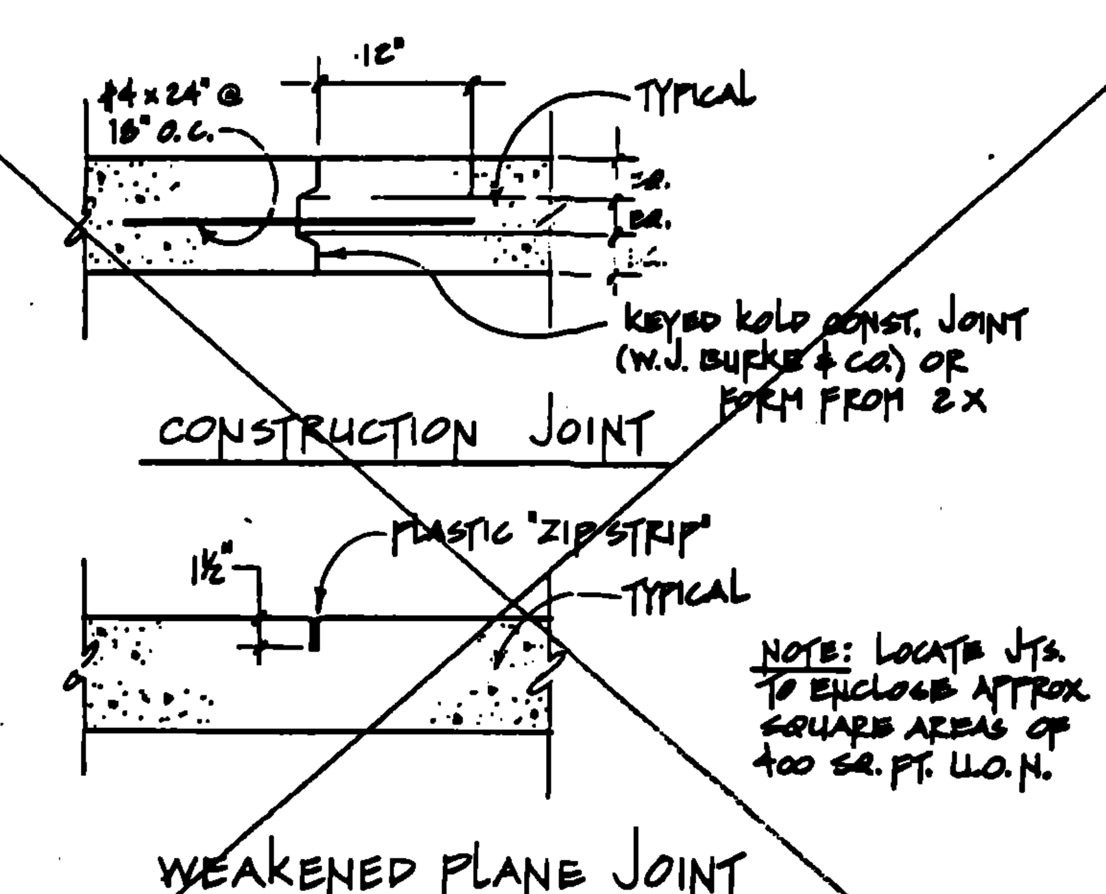


(1) PIPE CLEARANCES AT FOOTINGS

Note: Depth of footing maybe determined by location of pipes. General Contractor shall consult the Mechanical Contractor to determine exact depth and location of pipes & adjust footing depths accordingly.

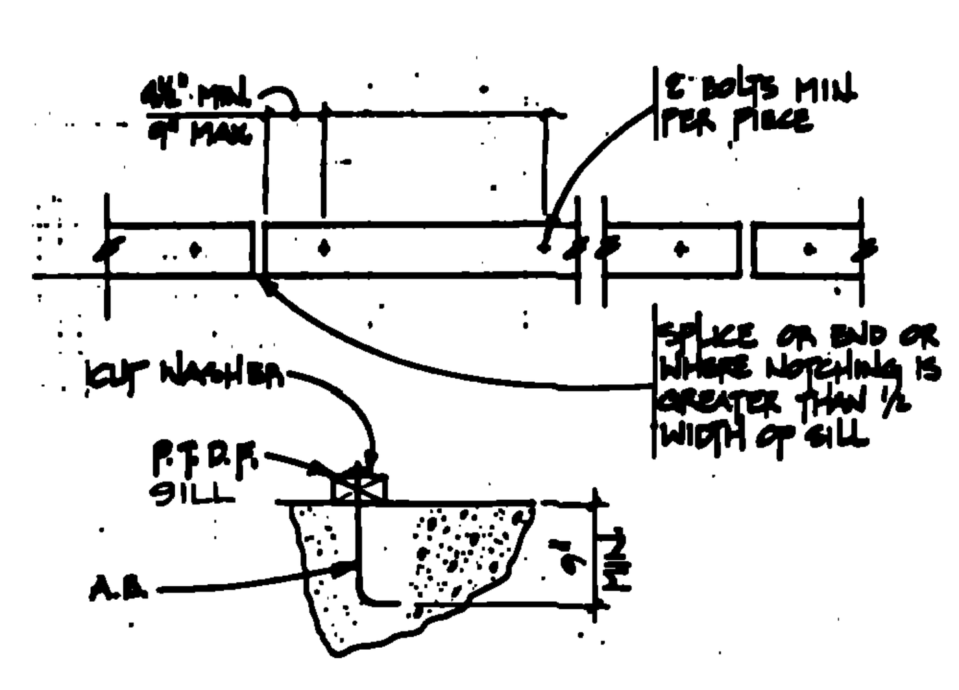


N.A. (2) TYPICAL SLAB ON GRADE

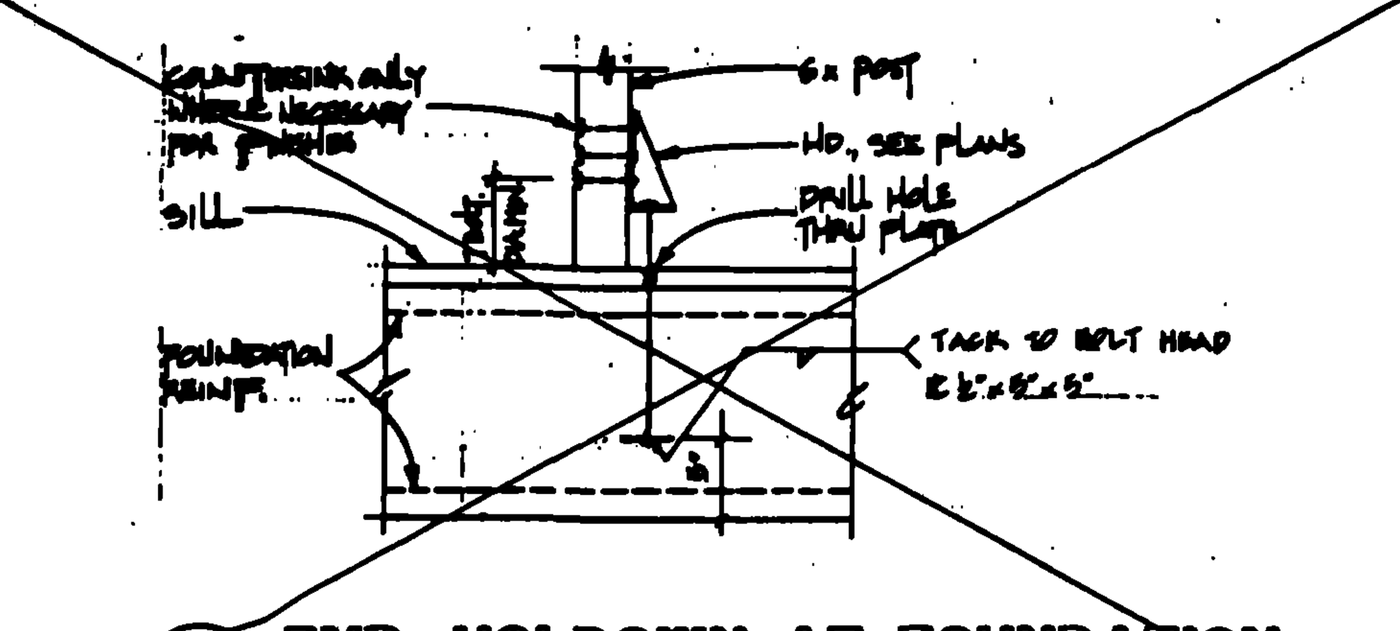


N.A. (3) TYP. JOINTS IN SLAB ON GRADE

Construction joints shall comply with section 2606(d) 198 UBC



(4) SILL BOLTING TO CONCRETE



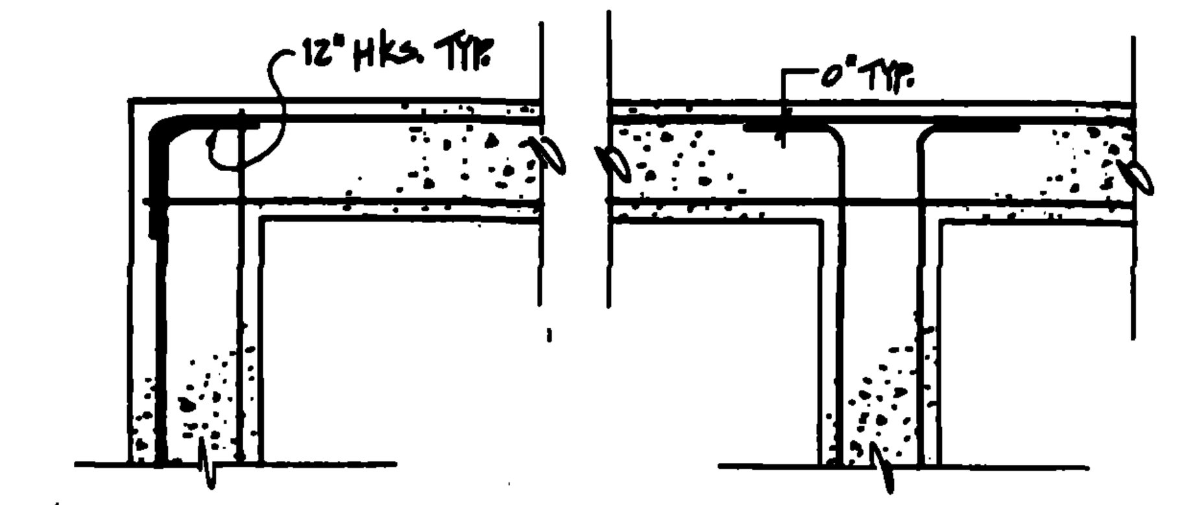
N.A. (5) TYP. HOLDOWN AT FOUNDATION

1. BAR SPLICES SHALL CONFORM TO ACI CLASS B SPLICE LENGTHS U.O.N.

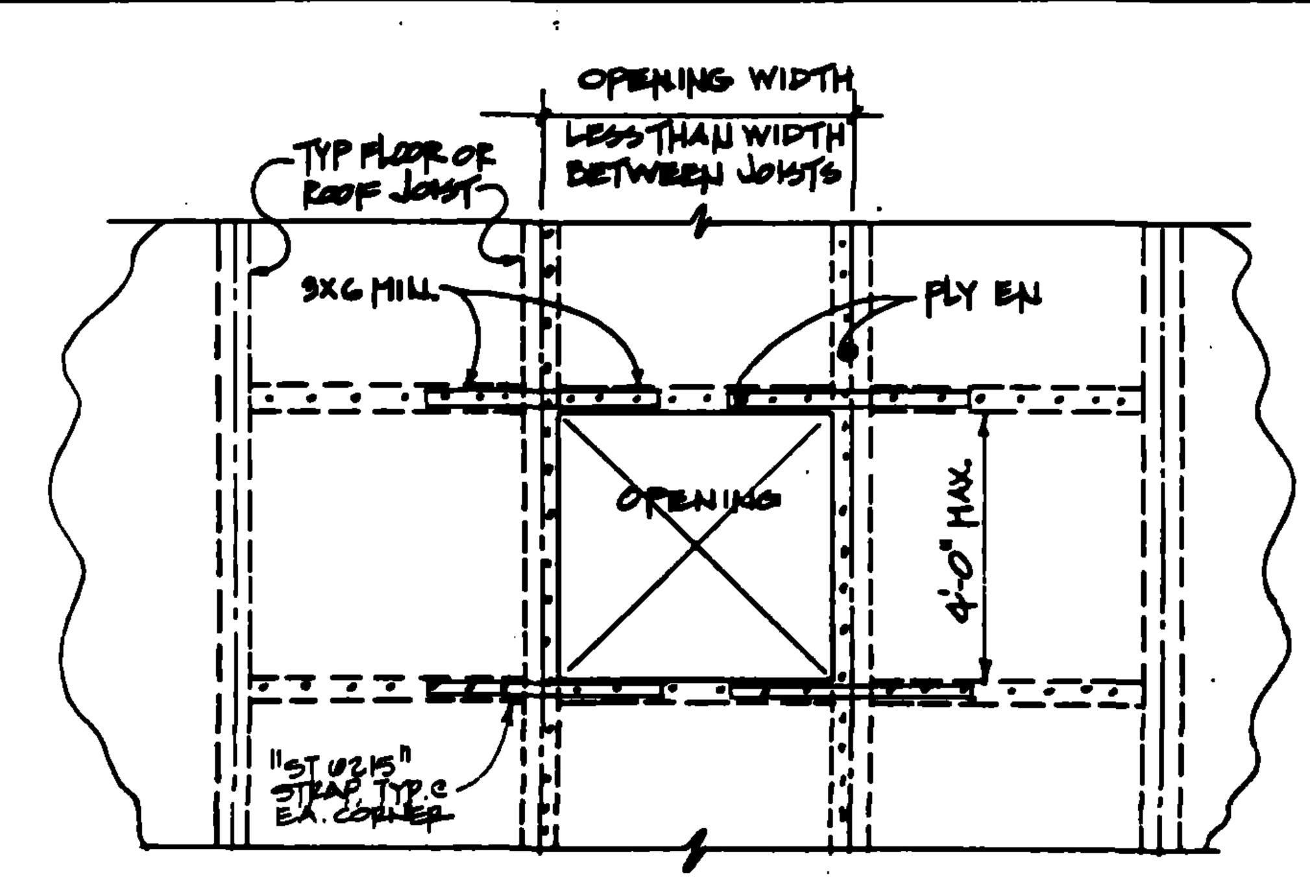
BAR #	#3	#4	#5	#6	#7	#8	#9	#10	#11
3000 PSI CONC.	16'	16'	20'	28'	34'	45'	57'	72'	89'
4000 PSI CONC.	16'	16'	20'	24'	30'	39'	49'	63'	77'

2. SPLICES SHALL BE STAGGERED WHERE POSSIBLE AND BARS SHALL BE LAPPED ONLY WHERE INDICATED ON DRAWINGS OR AS SPECIFICALLY APPROVED BY THE ENGINEER.

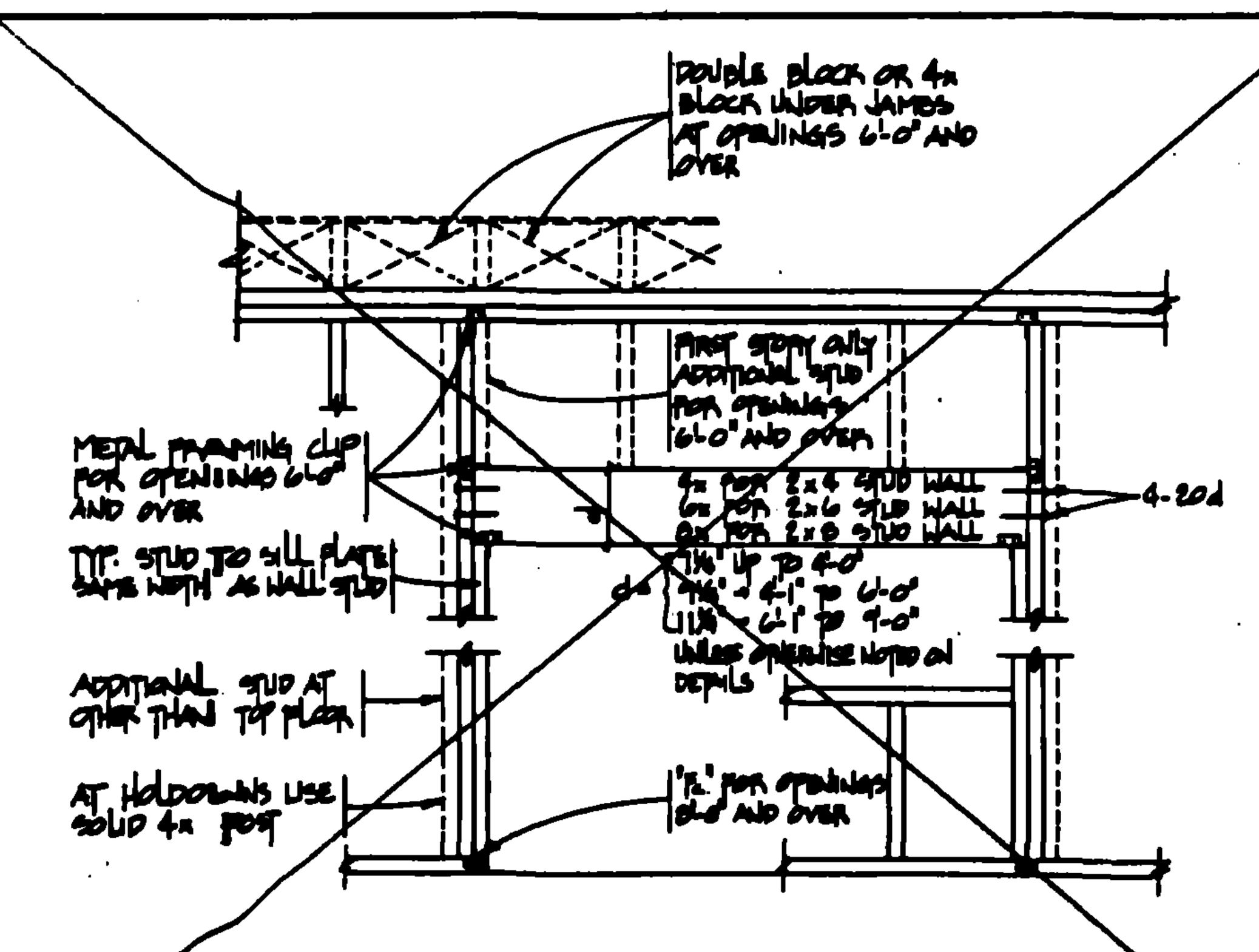
(6) REINFORCING BAR SPLICES



(7) CONCRETE INTERSECTIONS



(8) TYP. OPENING THRU PLY



N.A. (9) TYP. FRAMING AT OPENING

Boley

STRUCTURAL ENGINEERING
1719 ZANKER ROAD
SUITE 193
SAN JOSE
CALIFORNIA 95112
408-436-9299

MILPITAS SENIOR CENTER PHASE 2
160 North Main
Milpitas, California
Project 3368

RECORD DRAWING 4-1-93

REVISION	DATE
⚠	10-24-90
⚠ Phase 2 ISSUE for review	10-22-91
⚠ Issue for bid	12/4/91

GENERAL NOTES & TYPICAL DETAILS

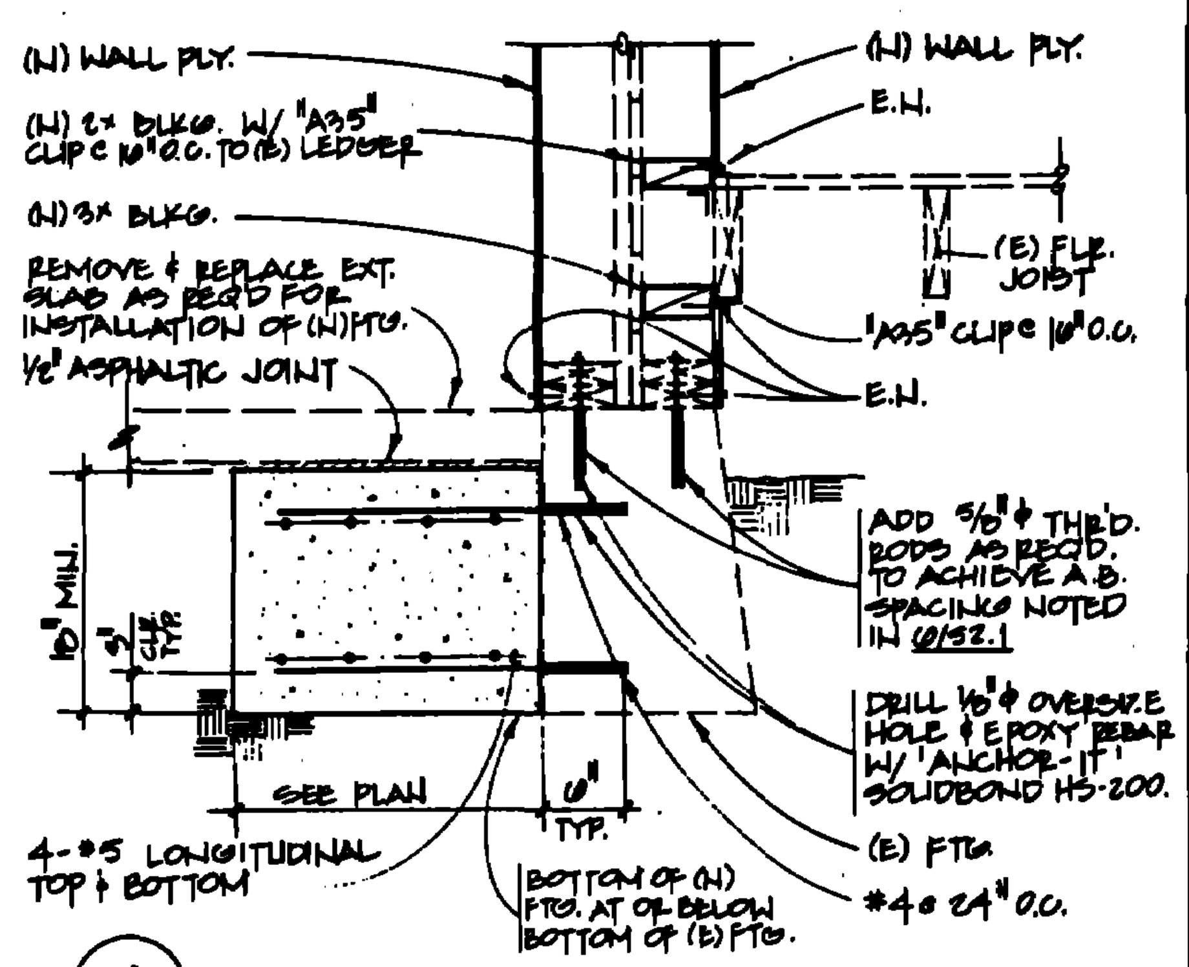
JOB# : 90-001
DRAWN : MC
DATE : 8-31-90
SCALE : NONE

S1.1

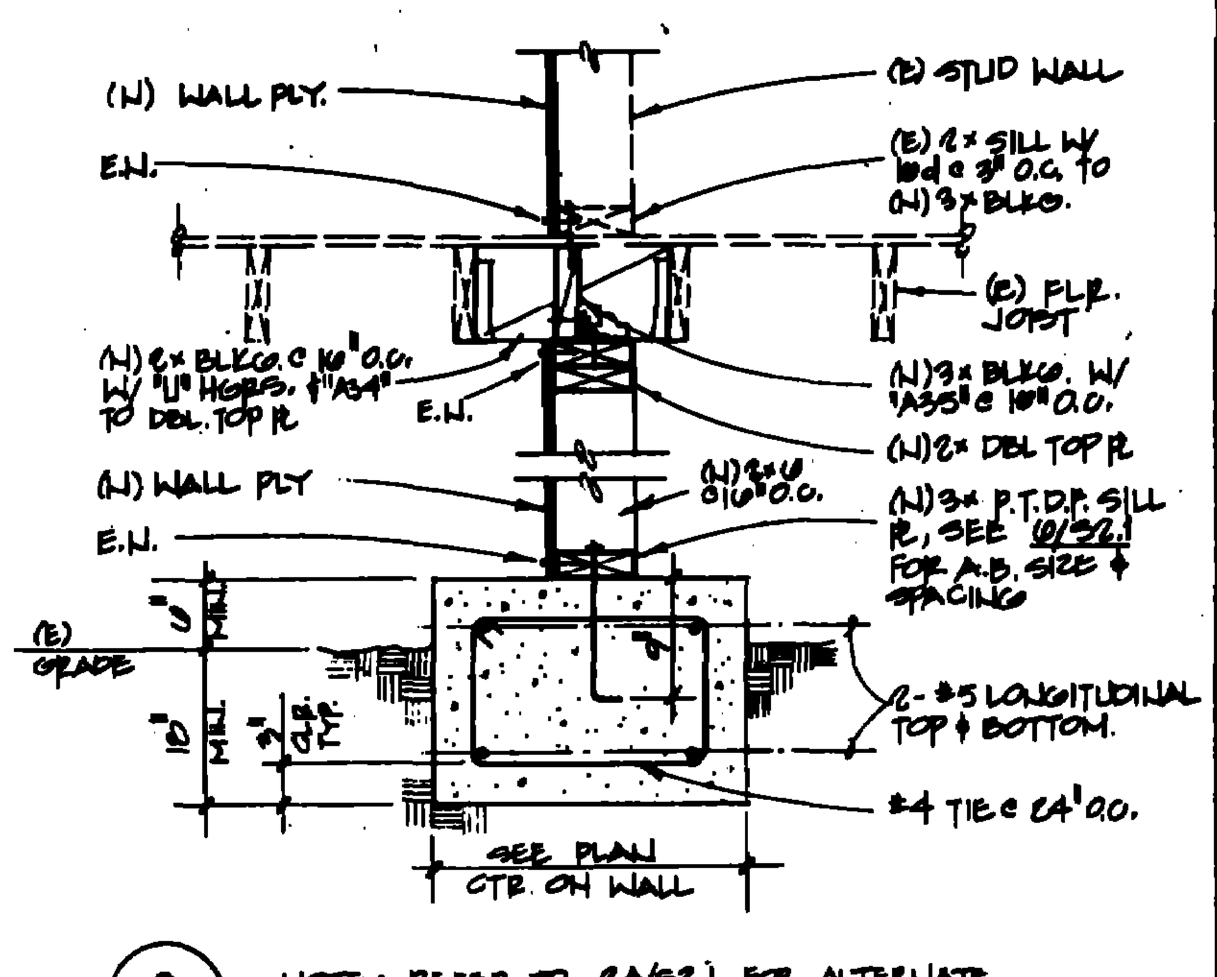
2 - 913

S2.1
18/24

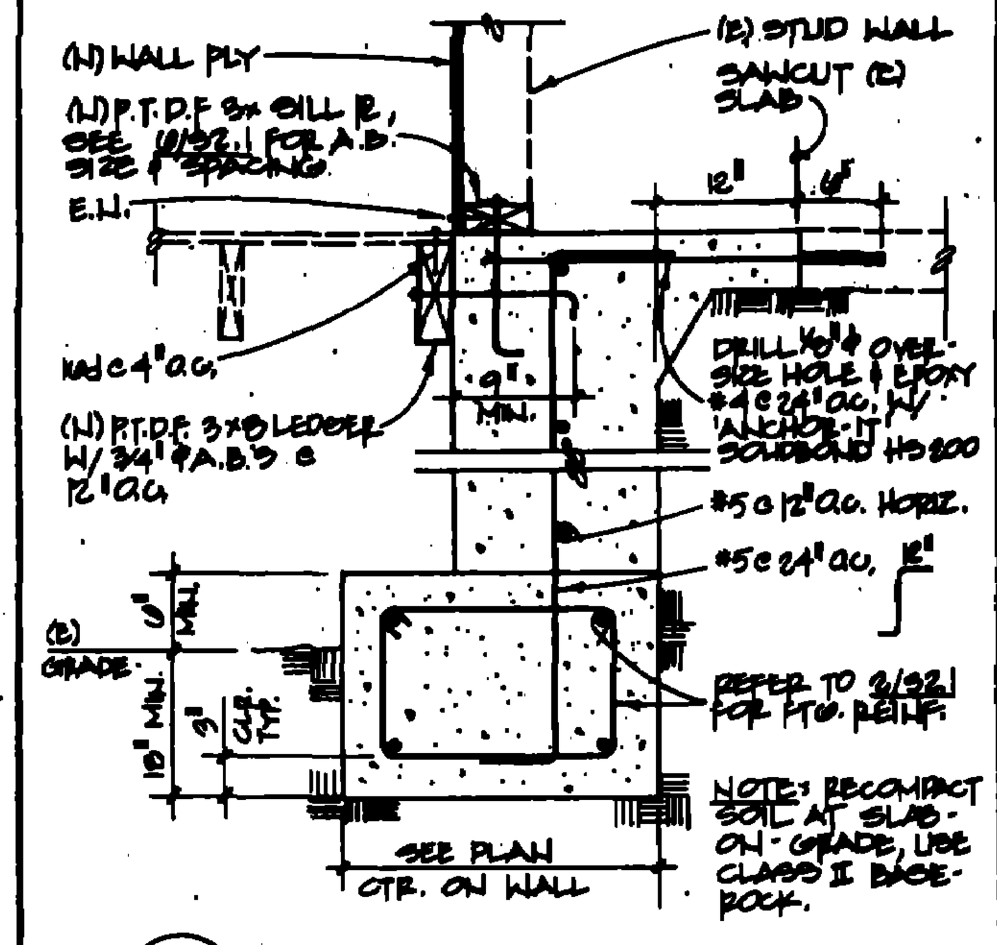
2-9/3



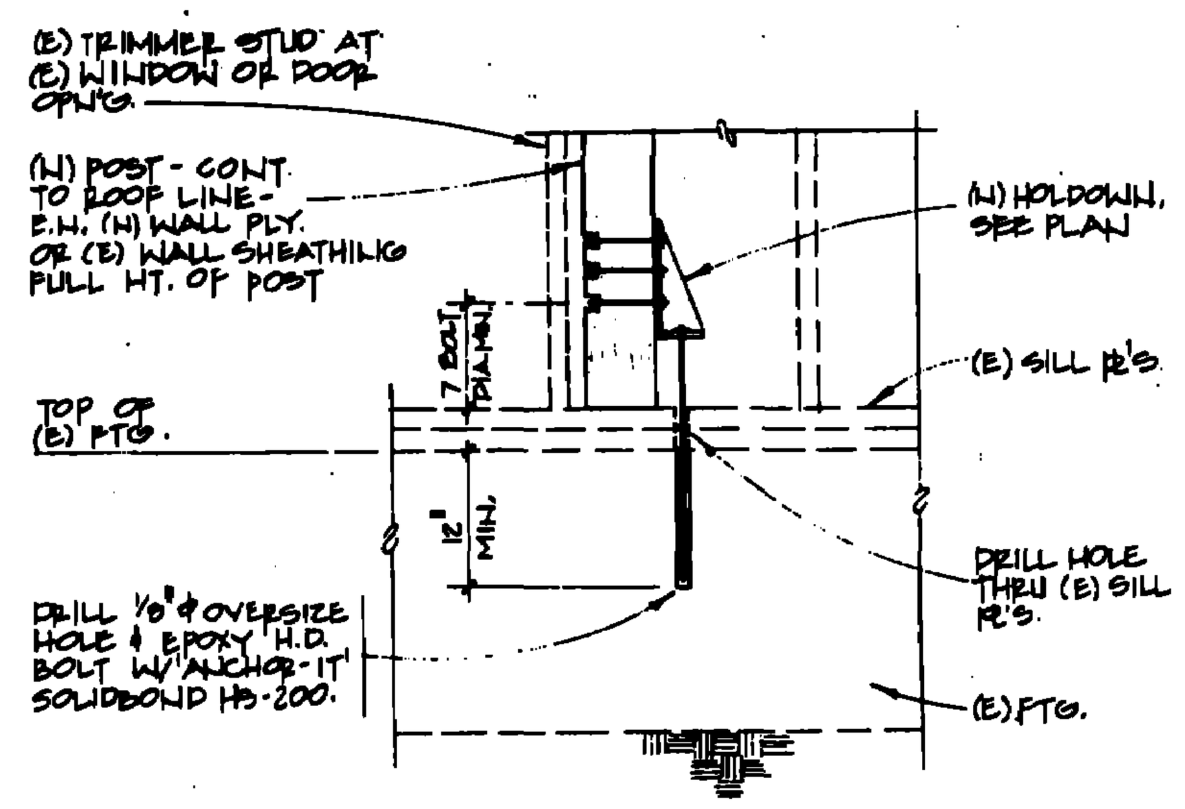
1 SEE 9a/S2.1



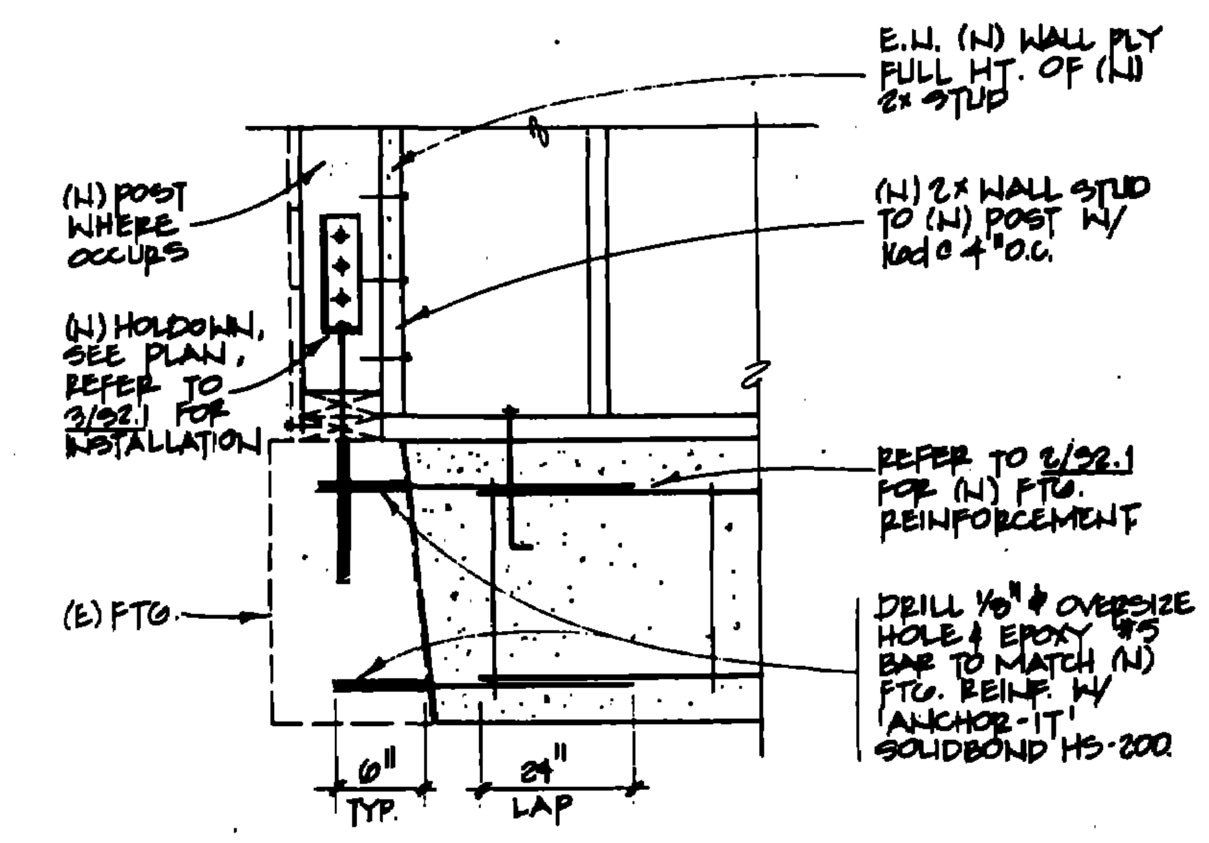
2 NOTE: REFER TO 2A/S2.1 FOR ALTERNATE DETAIL WHERE SLAB OCCURS AT ADJACENT BATHROOM SPACE



2A



3



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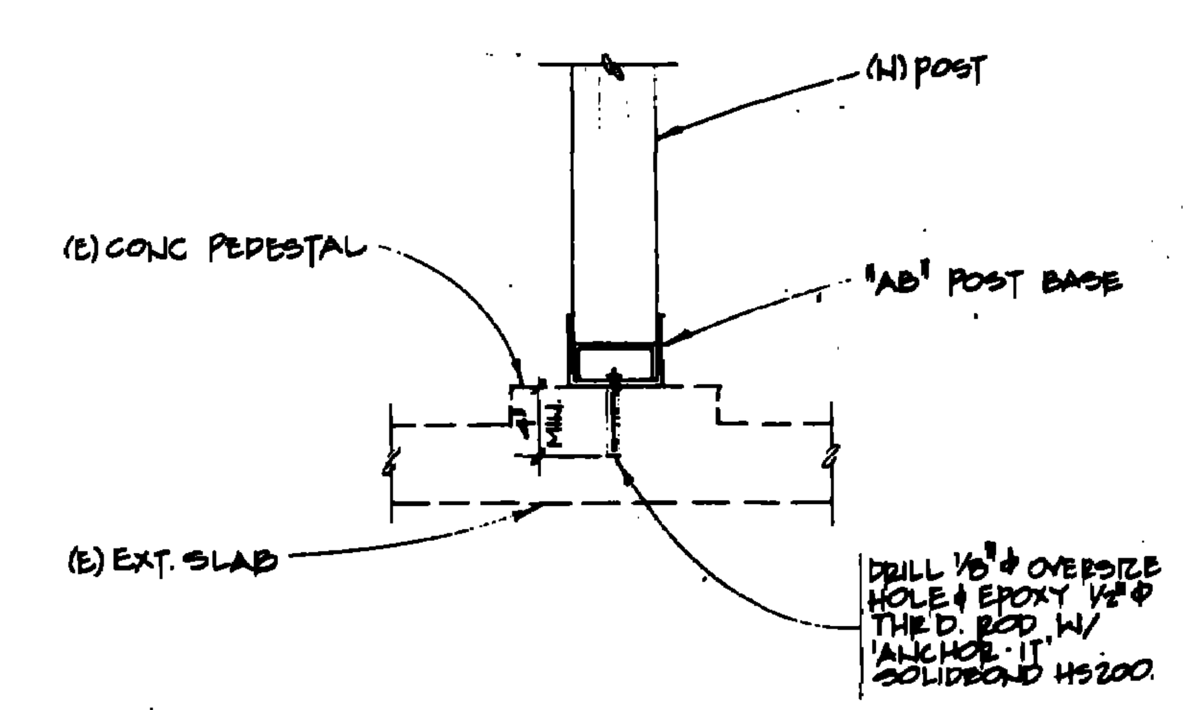


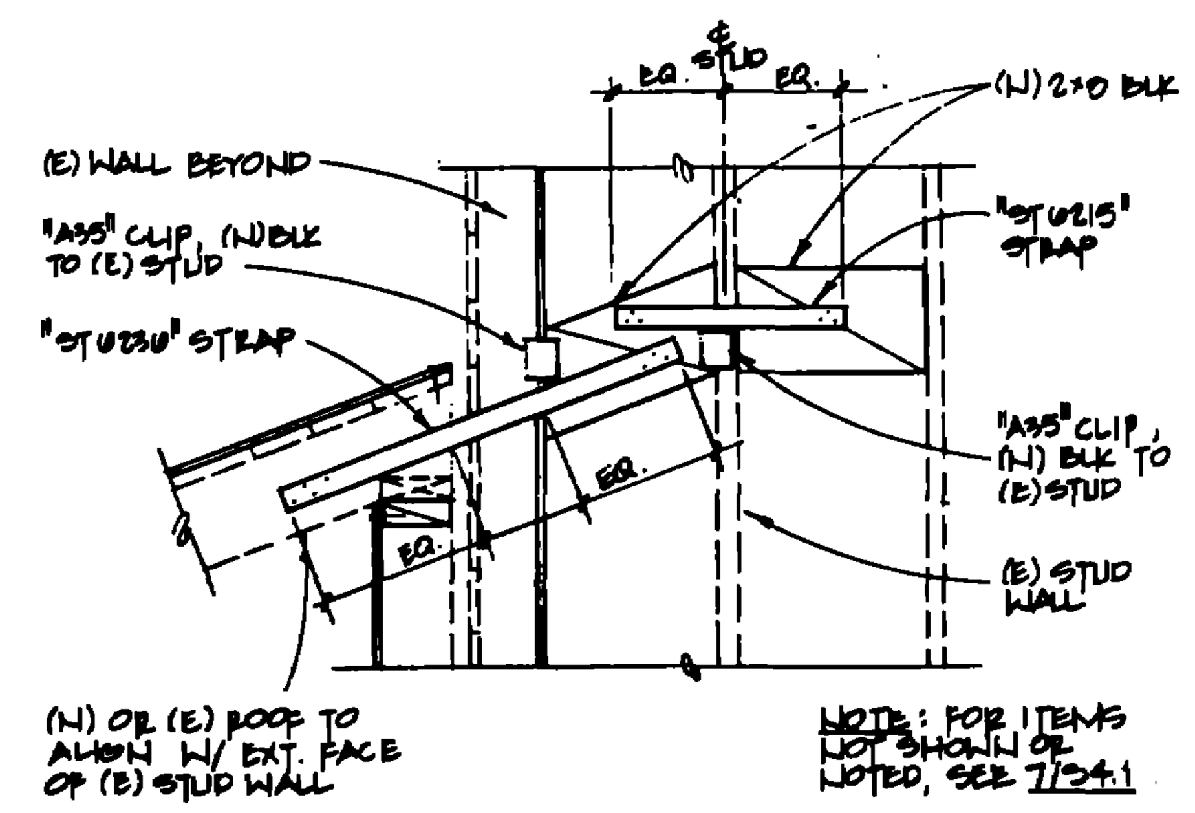
5

15/32" STRUCT. I PLY.				ANCHOR BOLTS
10d NAIL SPACING				5/8" ϕ
MARK	PANEL EDGES	FIELD	REMARKS	SIZE & SPACING
◇	6" O.C.	12" O.C.		48" O.C.
◆	4" O.C.	12" O.C.		24" O.C.

NOTES:

1. FOR STUDWALL BOTTOM PLATE ANCHOR BOLT SPACING NOT REFERENCED IN SCHEDULE, USE 5/8" ϕ A.B.'S @ 48" O.C.
2. EDGE NAIL PLYWOOD TO POST W/ HOLDOWN.
3. 10d NAILS SHALL HAVE A MINIMUM PENETRATION OF 1 5/8" INTO STUDS AND POSTS.

6 SHEARWALL SCHEDULE



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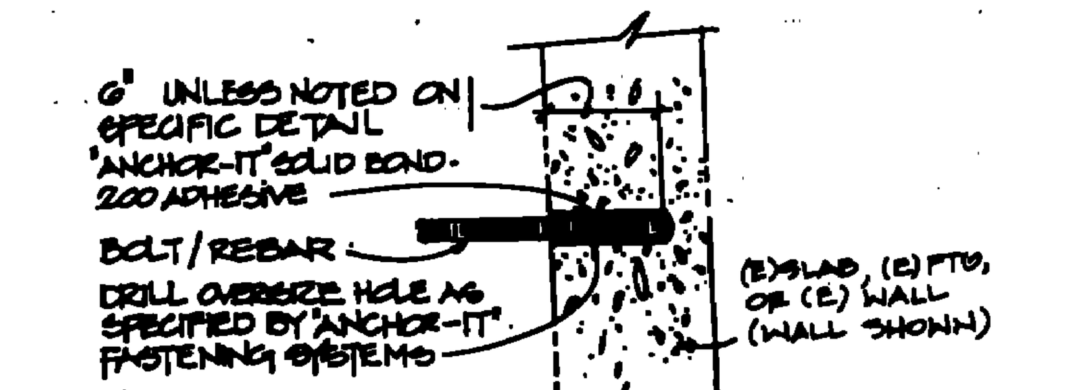
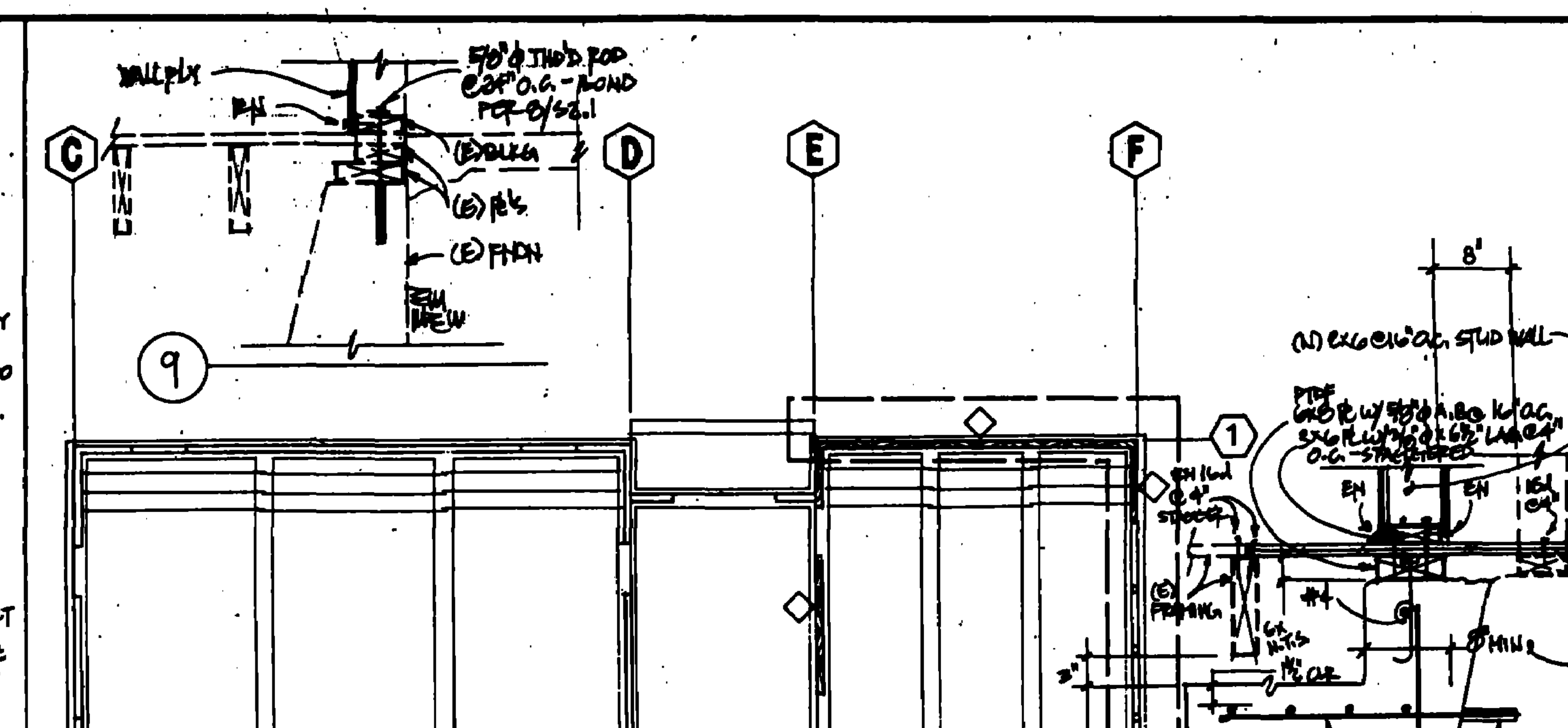
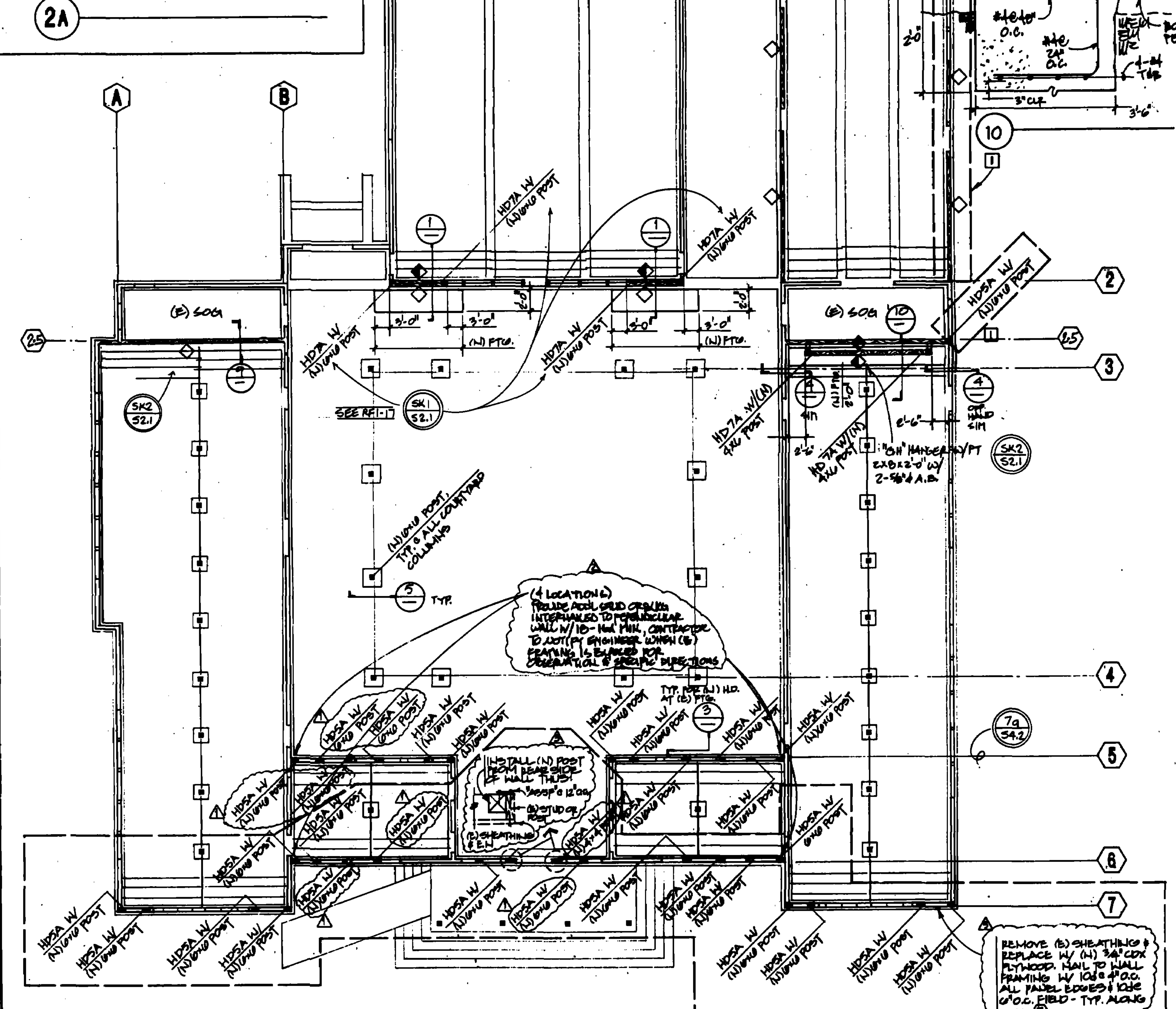


INSTALLATION:
Clean bolts/Rebar. Completely free of oil, loose scale and all deleterious matter.
Remove all loose material from hole.
Install in accordance with Mfg. recommendations
PROOF LOAD TESTS
Tests by Testing Agency employed by Owner.
TEST PROCEDURE
Established by Testing Agency
TESTS:
Cycle: Test 20 consecutive installations. If none fail, then test 20 %.
Repeat cycle when failure occurs.

PROOF TEST LOADS:
1/2" DIA. = 3100 LBS. #4 REBAR = 4400#
5/8" DIA. = 4700 LBS. #5 REBAR = 5400#
3/4" DIA. = 6800 LBS. 1 1/8" ϕ = 11,400 LBS.

8 TESTING REQUIREMENTS FOR EPOXIED BOLTS — SEE SDT-23

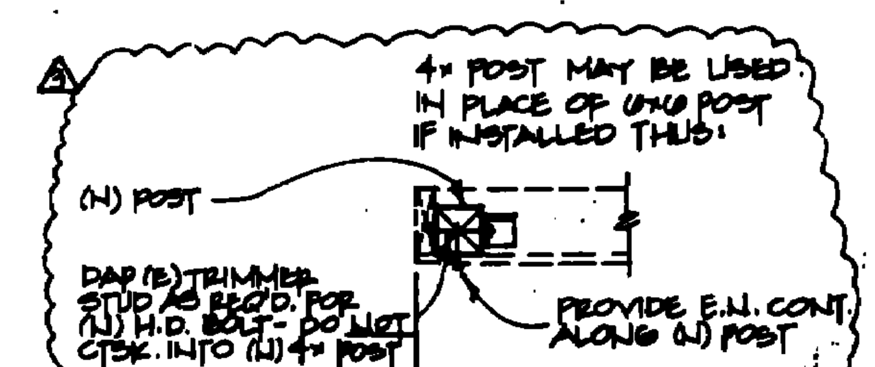
FOUNDATION PLAN

SCALE 1/8" = 1'-0"

FOUNDATION NOTES

1. WHERE NEW FOOTINGS ABUT EXISTING FOOTINGS, THE BOTTOM OF THE NEW FOOTINGS SHALL BE AT THE SAME ELEVATION AS OR BELOW THE BOTTOM OF THE EXISTING FOOTINGS.
2. AT EXISTING WOOD STUD WALLS WHERE INDICATED ON PLAN THUS: ADD PLYWOOD SHEATHING TO THE SIDE OF WALL INDICATED, EITHER DIRECTLY TO EXISTING FRAMING OR OVER EXISTING 1x STRAIGHT SHEATHING WHERE OCCURS, AND NAIL PER SCHEDULE 6/S2.1. BLOCK ALL UNSUPPORTED EDGES.
3. NEW SHEARWALL HOLDOWNS AND POSTS AT EXISTING FOOTINGS ARE INDICATED THUS: SEE 1/S2.1 FOR TYPICAL HOLDOWN DETAIL. HD5A W/ (N) 6x6 POST
4. EXISTING DATA WAS TAKEN FROM FIELD OBSERVATIONS. THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO PROCEEDING WITH THE WORK.
5. THE REMOVAL, CUTTING, DRILLING, ETC., OF EXISTING WORK SHALL BE PERFORMED WITH GREAT CARE AND SMALL TOOLS IN ORDER NOT TO JEOPARDIZE THE STRUCTURAL INTEGRITY OF THE BUILDING. IF EXISTING STRUCTURAL MEMBERS NOT INDICATED FOR REMOVAL INTERFERE WITH THE NEW WORK, THE ENGINEER SHALL BE IMMEDIATELY NOTIFIED SO THAT REMEDIAL PROCEDURES CAN BE ESTABLISHED PRIOR TO PROCEEDING WITH THE WORK.

SEE SDT-30 FOR CONTRACTOR'S GEOTECHNICAL CONSULTANT'S REPORT



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408-436-9290

MILPITAS SENIOR CENTER PHASE 2
160 North Main
Milpitas, California
Project 3368

LEGEND

☐ PHASE 1 WORK IN THIS AREA – DO NOT INCLUDE IN PHASE 2.

RECORD DRAWING
4-1-93

REVISION	DATE
△1	10-24-90
△2	11-2-90
△3	11-16-90
△4 Phase 2 issue for review	10-22-91
△5 Issued for bid	12/4/91.
△6 Proof tests	3/16/92

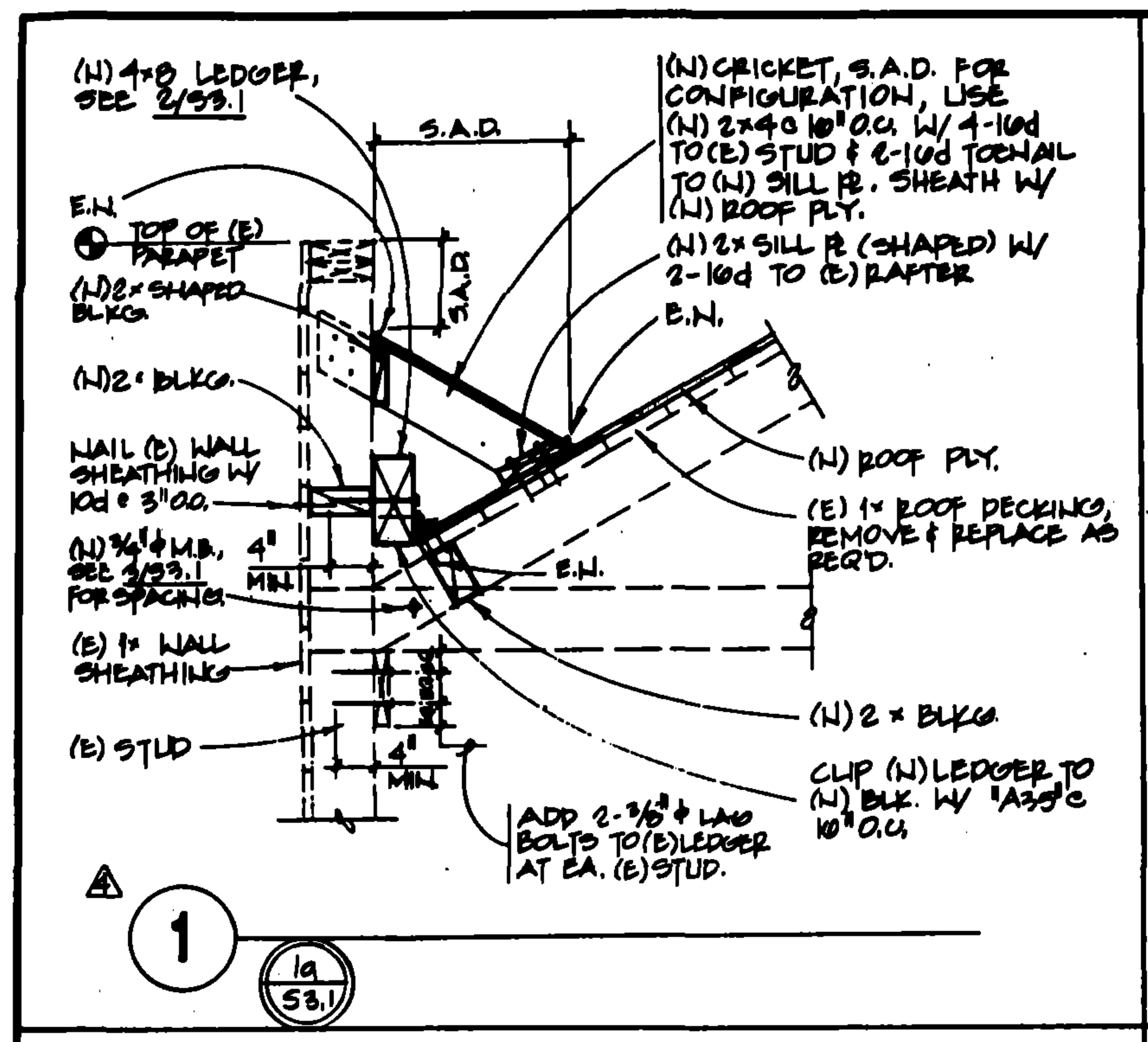
FOUNDATION PLAN & DETAILS

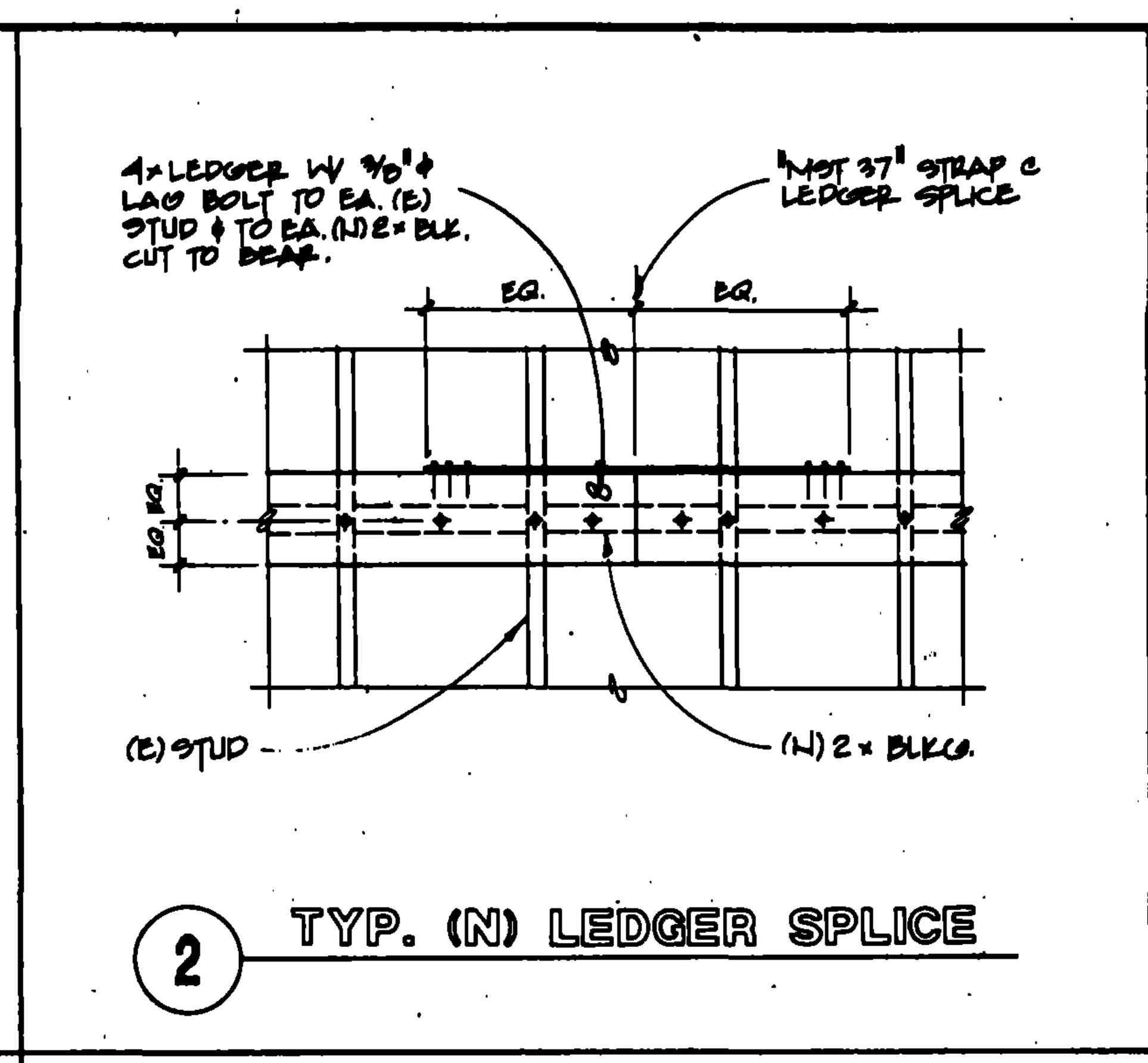
JOB# : 90-001
DRAWN : MC
DATE : 8-31-90
SCALE : AS NOTED

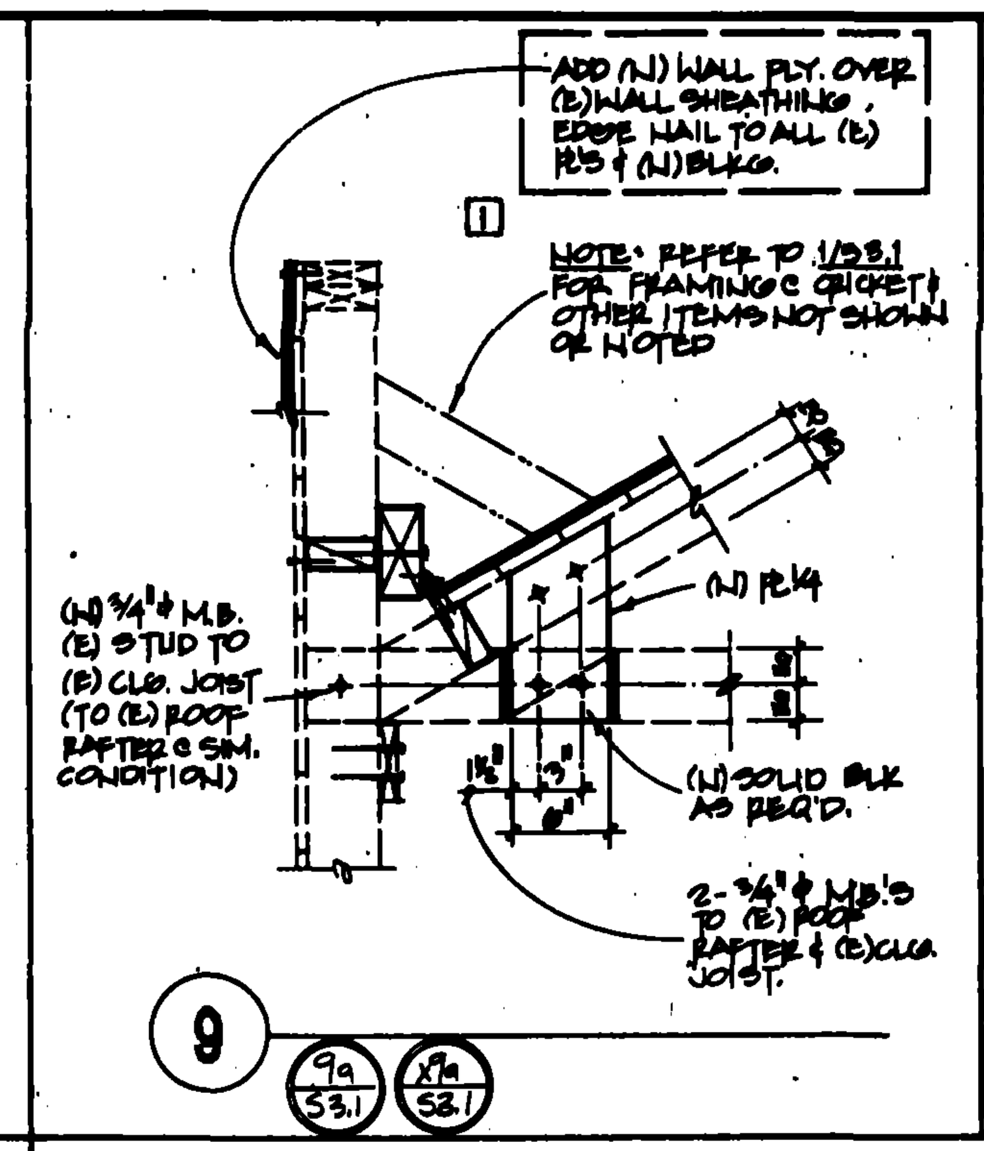
S2.1

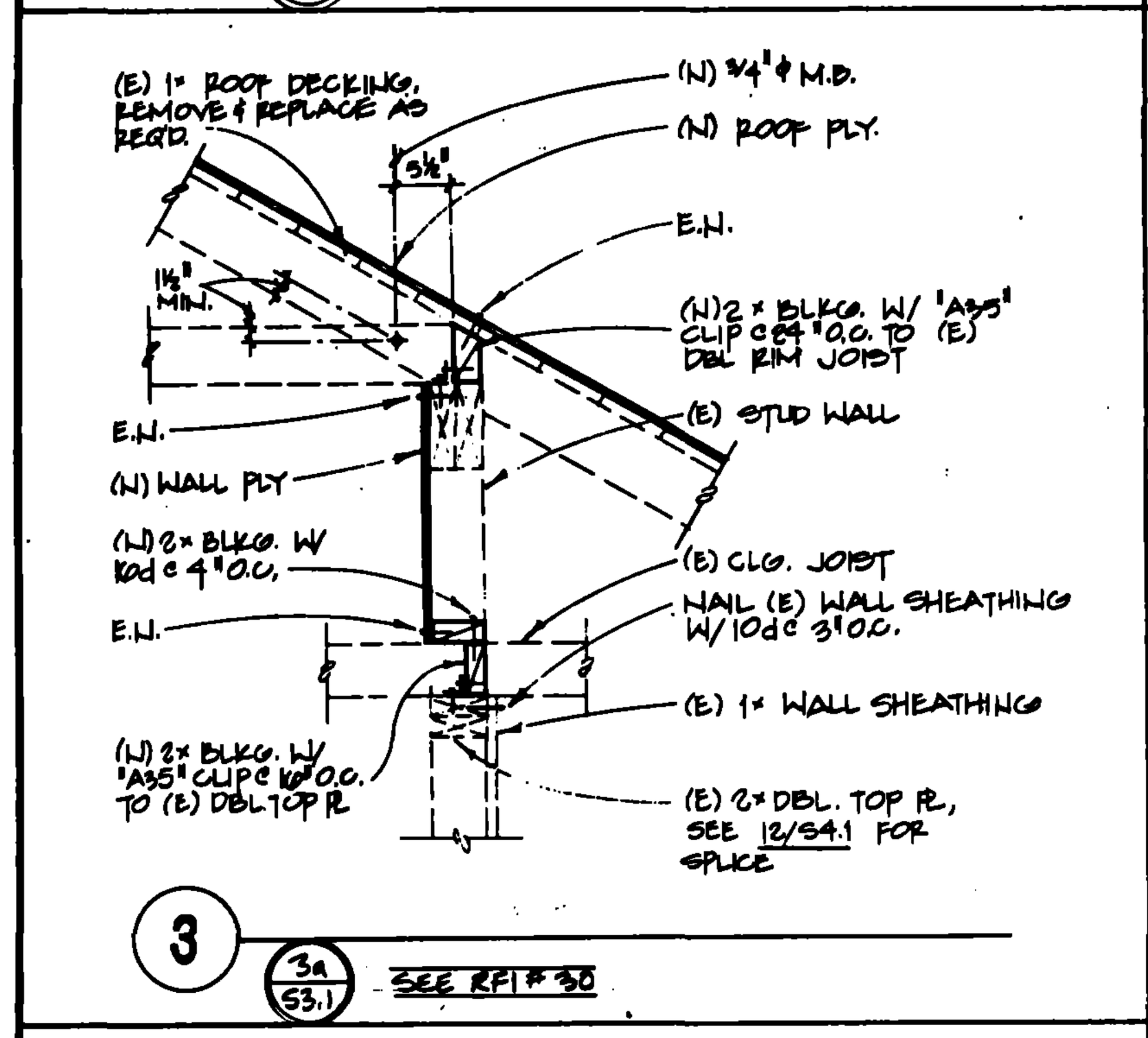
2 - 913

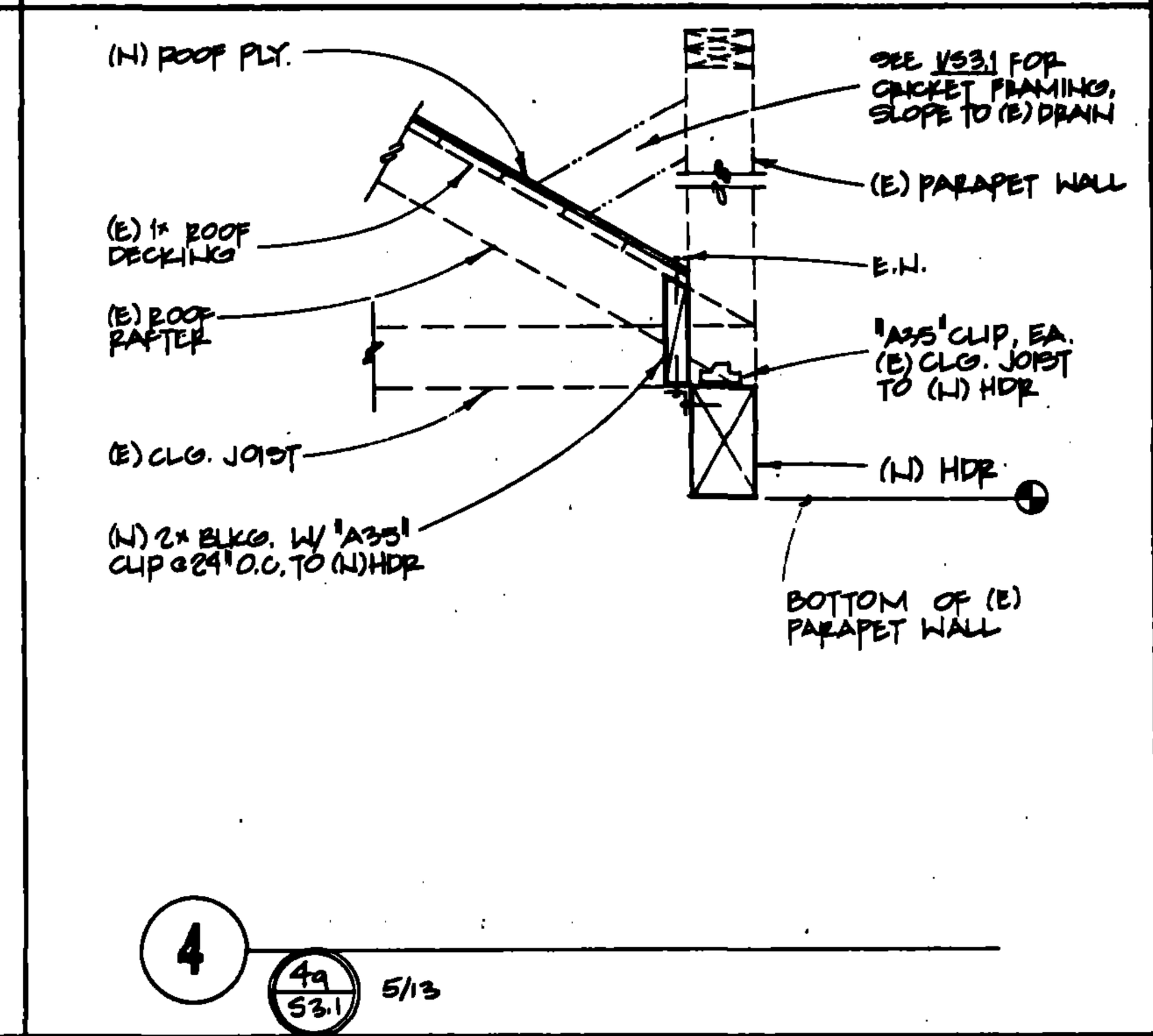
2-913
S3.1 19/24

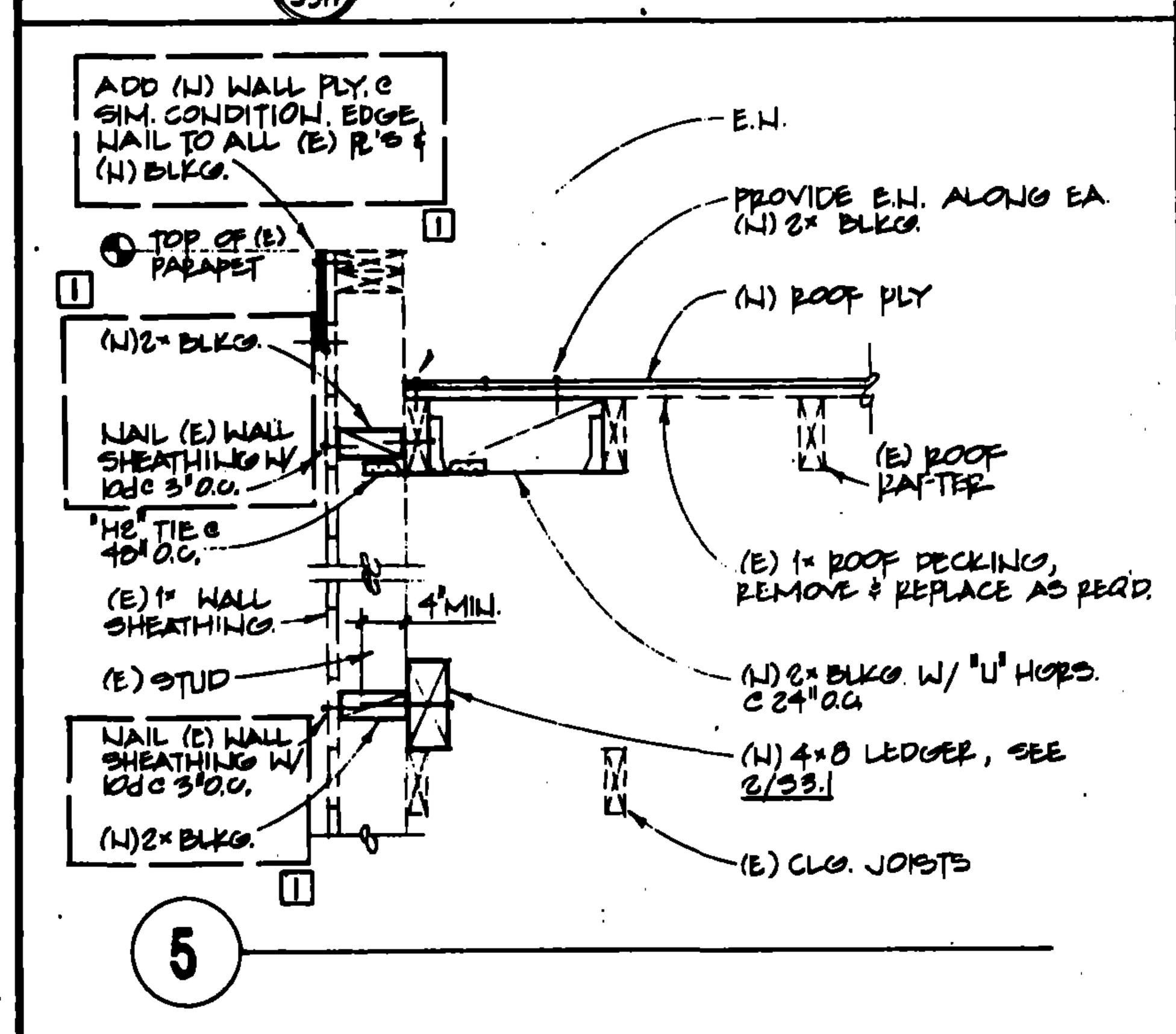


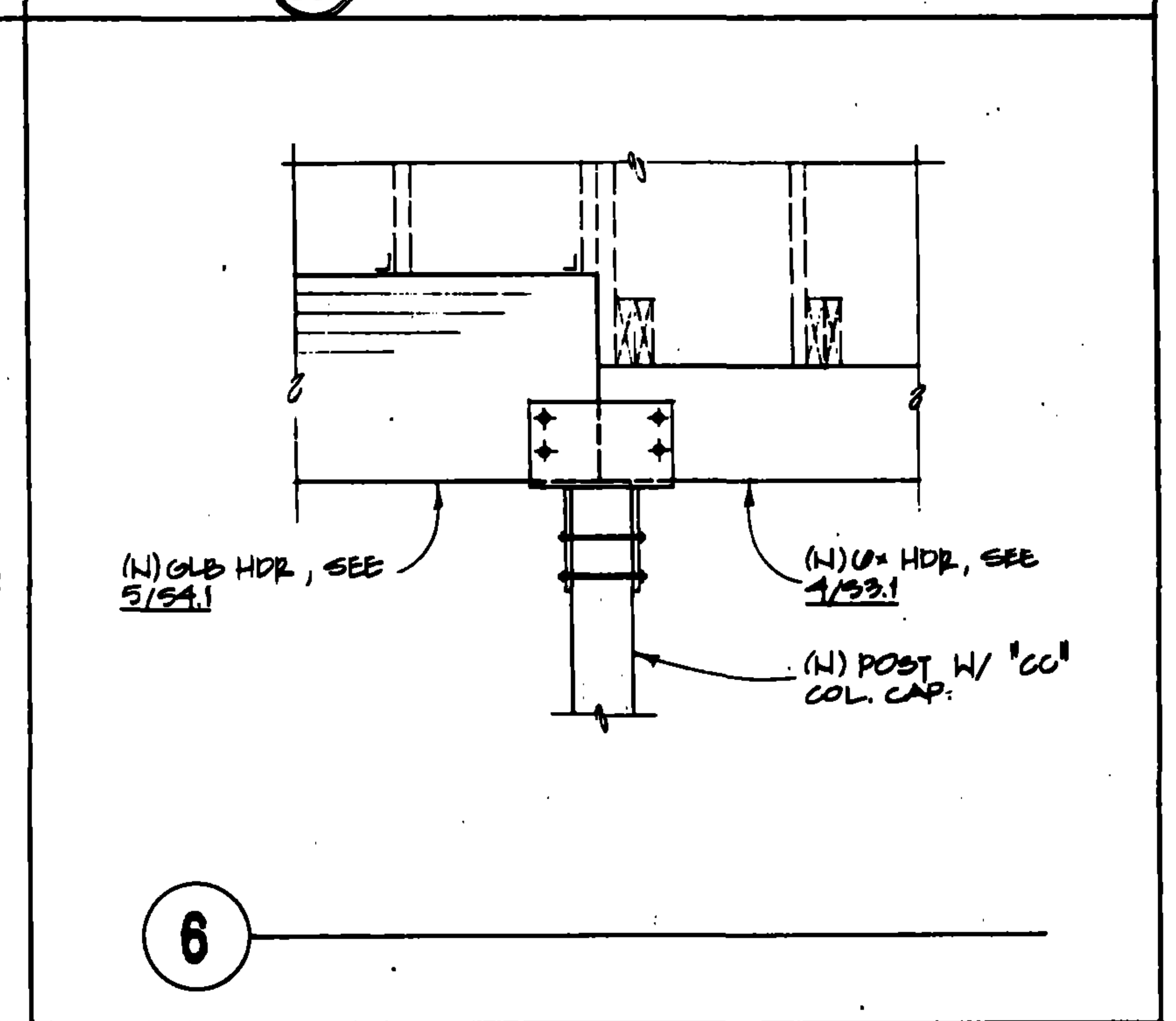


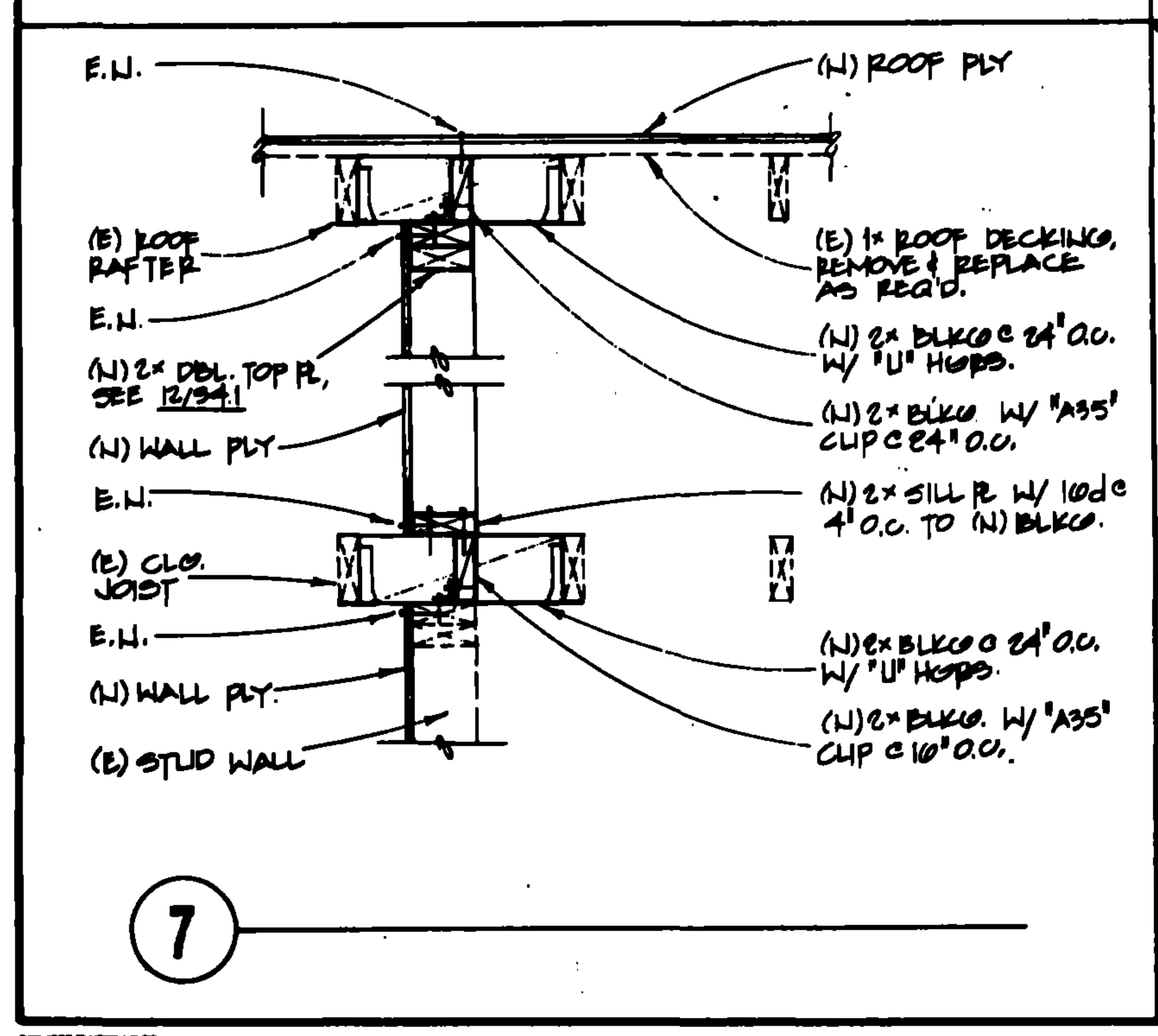


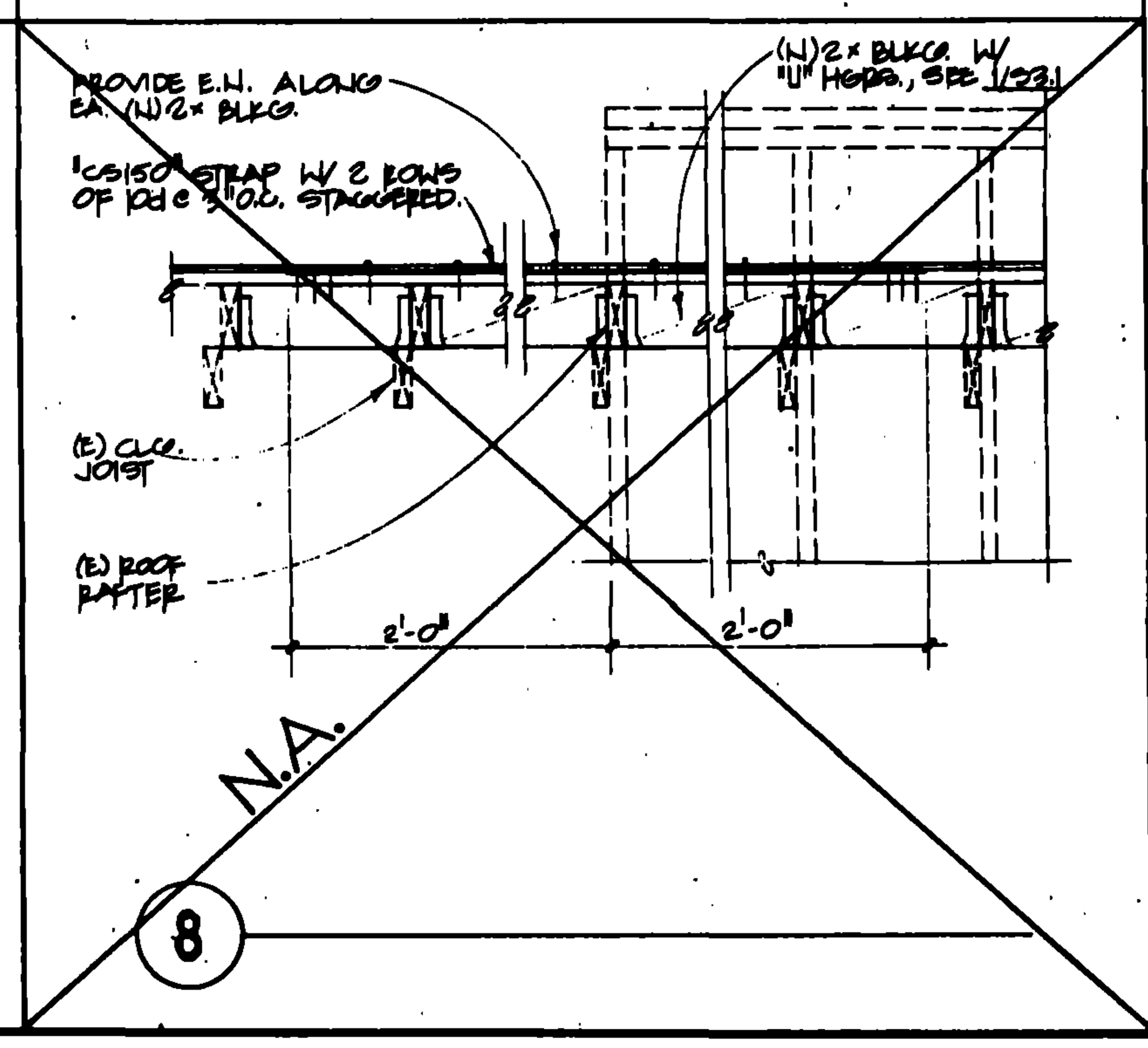


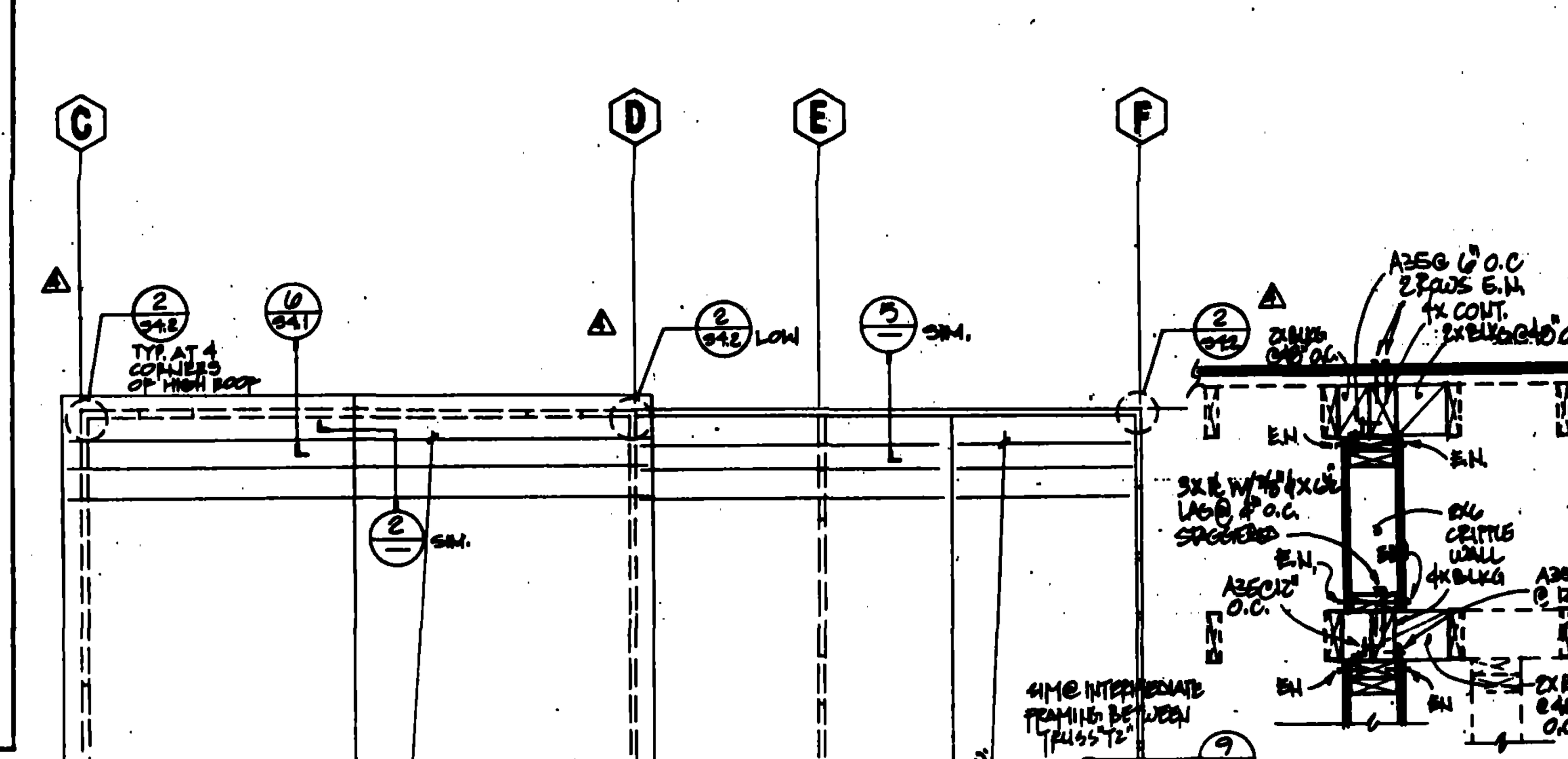
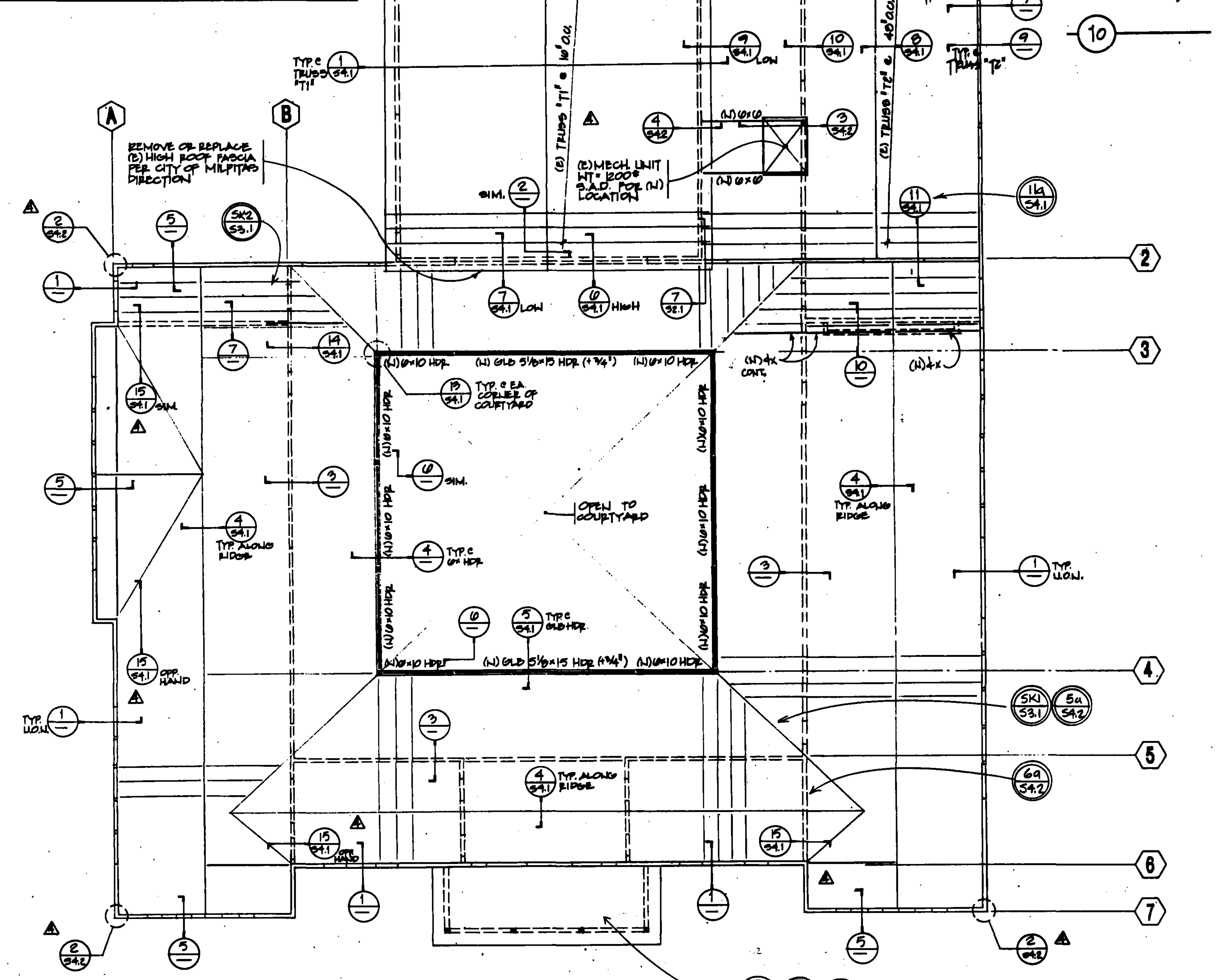










ROOF FRAMING PLAN

SCALE 1/8" = 1'-0"

ROOF FRAMING NOTES

1. CONTRACTOR SHALL REMOVE AND REPLACE EXISTING ROOFING AS REQUIRED TO APPLY NEW ROOF SHEATHING OVER EXISTING 1x DECKING. NEW ROOF SHEATHING SHALL BE 15/32" CDX, 5-PLY, WITH 10d AT 6" O.C. AT ALL PANEL EDGES AND AT 12" O.C. IN THE FIELD. SHEATHING SHALL BE PLACED WITH FACE GRAIN PERPENDICULAR TO FRAMING (I.E. JOISTS AND TRUSSES) AND WITH END JOINTS STAGGERED. NO PLYWOOD SHEATHING SHALL BE LESS THAN 2'-0" IN ITS LEAST DIMENSION.
2. FOR TYPICAL OPENINGS IN PLYWOOD SHEATHING, SEE 8/S1.1
3. TYPICAL METAL FRAMING DEVICES (SIMPSON DESIGNATION) SHALL BE AS FOLLOWS:

   U HANGERS FOR JOISTS, BLOCKING
   CC OR ECCL COLUMN CAPS FOR GLB & 6x HDRS.

4. THE CONTRACTOR SHALL SAFELY SHORE WHEREVER NECESSARY TO ALLOW FOR INSTALLATION OF THE WORK. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR THE DESIGN, INSTALLATION AND MAINTENANCE OF ALL SHORING AND TEMPORARY WORK REQUIRED THROUGHOUT THE PROGRESS OF THE WORK.
5. EXISTING CONSTRUCTION SHOWN ON THE DRAWINGS WAS OBTAINED FROM FIELD OBSERVATIONS. THE CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS AND SHALL NOTIFY THE ENGINEER OF ALL EXCEPTIONS AND RECEIVE APPROVAL BEFORE PROCEEDING WITH THE WORK IN QUESTION.
6. THE REMOVAL, CUTTING, DRILLING, ETC., OF EXISTING WORK SHALL BE PERFORMED WITH GREAT CARE AND SMALL TOOLS IN ORDER NOT TO JEOPARDIZE THE STRUCTURAL INTEGRITY OF THE BUILDING. IF EXISTING STRUCTURAL MEMBERS NOT INDICATED FOR REMOVAL INTERFERE WITH THE NEW WORK, THE ENGINEER SHALL BE IMMEDIATELY NOTIFIED SO THAT REMEDIAL PROCEDURES CAN BE ESTABLISHED PRIOR TO PROCEEDING WITH THE WORK.
7. FOR SPLICE CONNECTION AT (N) LEDGERS, SEE 2/S3.1 & 1/S4.2

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MILPITAS SENIOR CENTER PHASE 2
160 North Main
Milpitas, California
Project 3368

LEGEND

[1] PHASE 1 WORK IN THIS AREA – DO NOT INCLUDE IN PHASE 2.

RECORD DRAWING
4-1-93

REVISION	DATE
PHASE 2.	7-17-91
PHASE 2 Issue for review	10-22-91
Issued for Bid	12/4/91

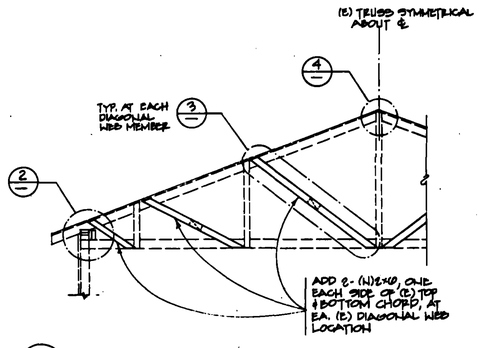
ROOF FRAMING PLAN & DETAILS

JOB# : 90-001
DRAWN : MC
DATE : 8-31-90
SCALE : AS NOTED

S3.1

2 - 913

S4.1
2-913



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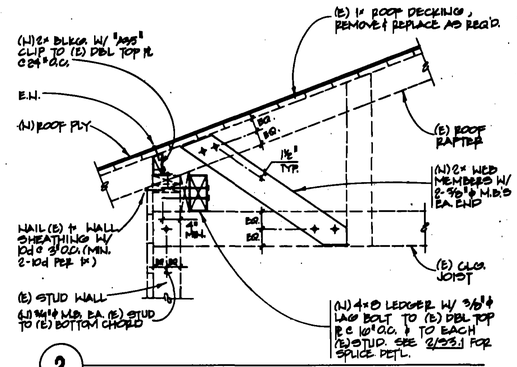
SEE RFI #19, (1a / S4.1), RFI #24



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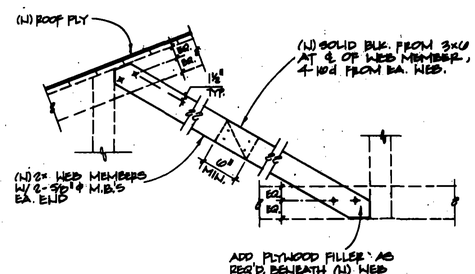
SEE RFIS #'S 19, 23, 24



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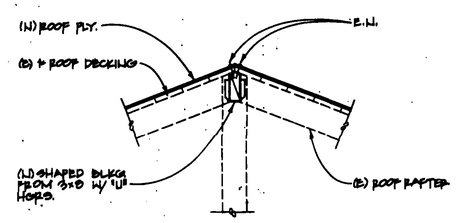

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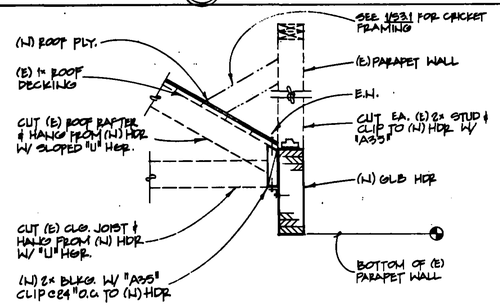

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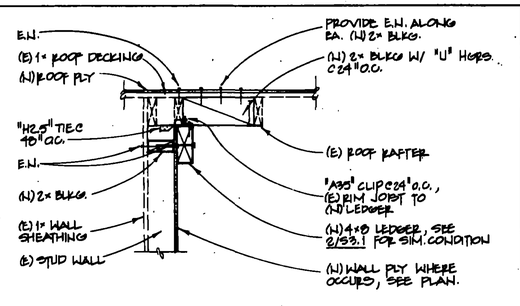
5a / S4.1



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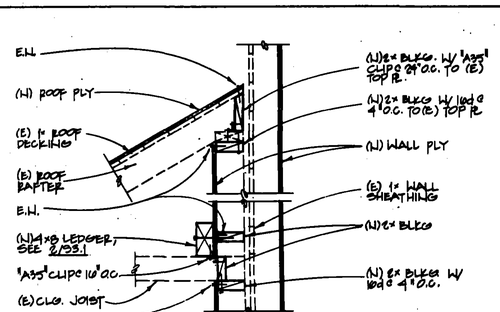
6b / S4.1 — RFI #22



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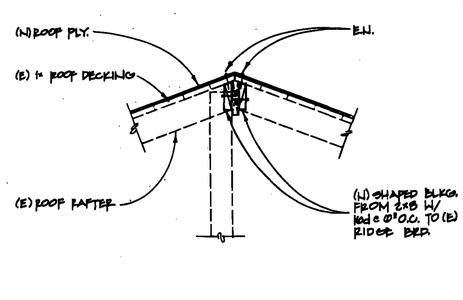
7a / S4.1



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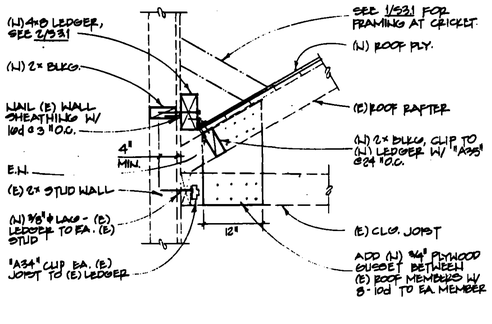

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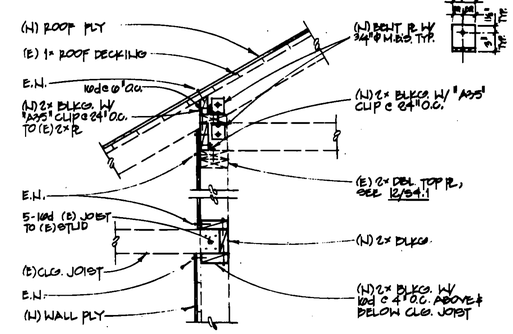
9a / S4.1 — x9a / S4.1



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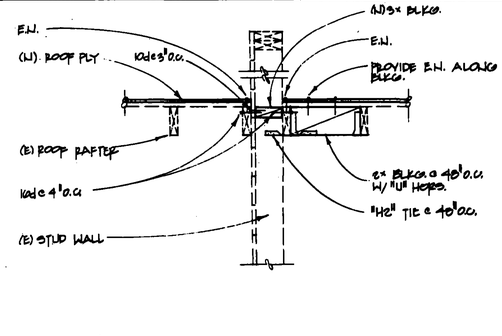
10a / S4.1 — SEE RFI #18, SEE SDT-12



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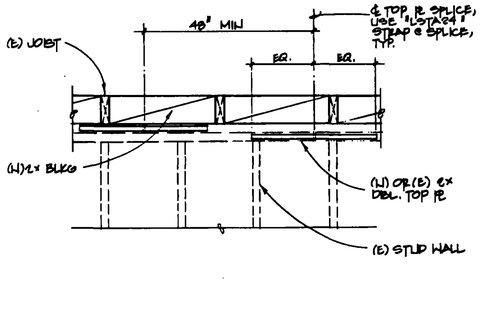
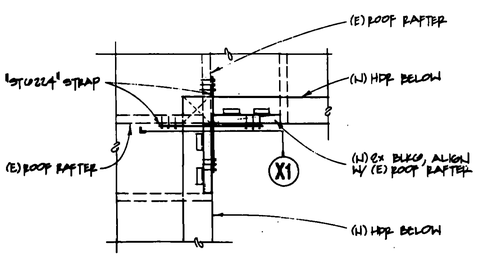
11a / S4.1 — 11b / S4.1



12 TYP. (N) OR (E) TOP PLATE SPLICE



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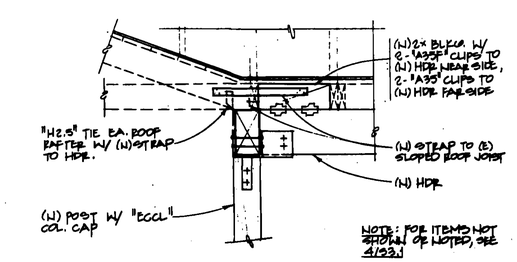
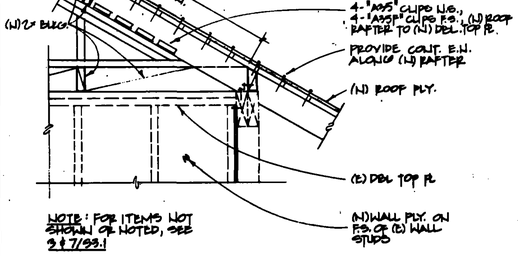


X1



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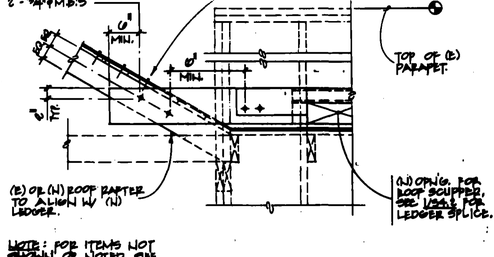

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408-436-9296

MILPITAS SENIOR CENTER PHASE 2
160 North Main
Milpitas, California
Project 3368

LEGEND

1 PHASE 1 WORK IN THIS AREA – DO NOT INCLUDE IN PHASE 2.

RECORD DRAWING 4-1-93

REVISION	DATE
⚠ PHASE 2.	7-17-91
⚠ PHASE 2 ISSUE FOR PERMIT	10-22-91
⚠ ISSUE FOR BID	12/4/91.

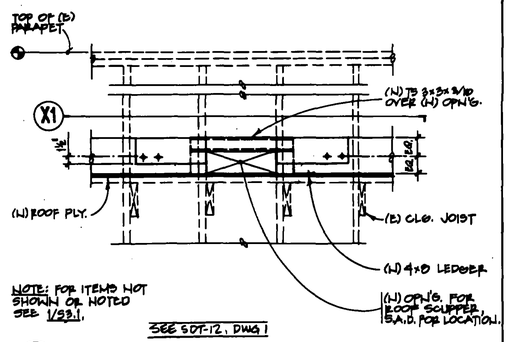
FRAMING DETAILS

JOB# : 90-001
DRAWN : MC
DATE : 8-31-90
SCALE : NONE

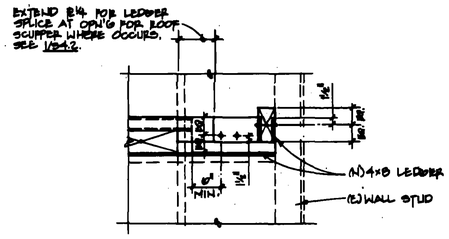
S4.1

2 - 913

S4.2
2-9/13
21/24



1 TYPICAL (N) LEDGER SPLICE AT OPN'G. FOR ROOF SCUPPER



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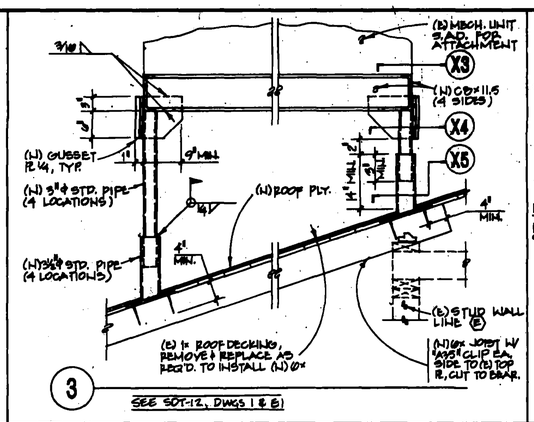
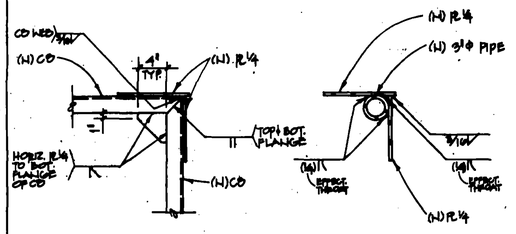
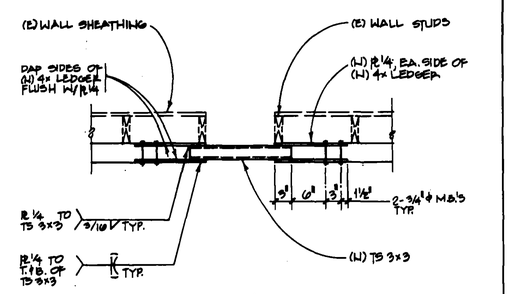


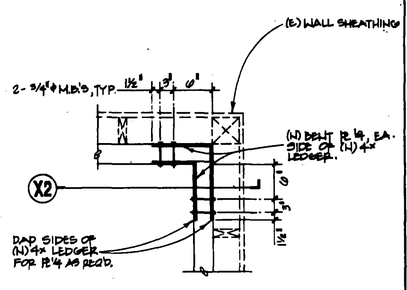
3
SEE SDT-12, DWGS 1 & 6



PLAN X3 PLAN X4

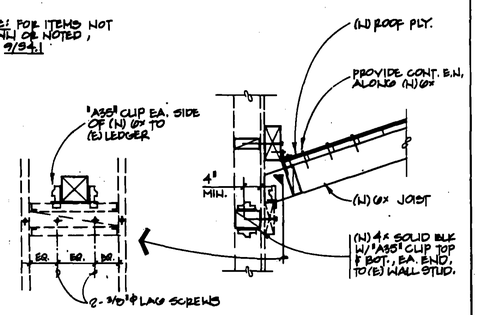


PLAN X1



PLAN

2 TYPICAL (N) LEDGER SPLICE AT CORNER
SEE SDT-12, DWGS 1 & 6



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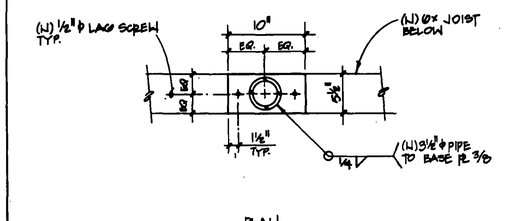

PLAN X5

SEE 8½"x11" SKETCHES 5a S4.2 6a S4.2 7a S4.2 8a S4.2 9a S4.2 10a S4.2 11a S4.2

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MILPITAS SENIOR CENTER PHASE 2
160 North Main
Milpitas, California
Project 3260

RECORD DRAWING
4-1-93

REVISION	DATE
⚠ PHASE 2	7-17-91
⚠ PHASE 2 ISSUE FOR REVIEW	10-22-91
⚠ ISSUED FOR BID	12/4/91

FRAMING DETAILS

JOB# : 90-001
DRAWN : MC
DATE : 7-17-91
SCALE : NONE

⚠ S4.2

2 - 913

2-913 S5.1 22/24

SECTION 01400 - TESTING AND INSPECTIONS

PART I GENERAL

1.01 SCOPE OF WORK
Furnish all labor, materials, equipment and services necessary to provide all testing and inspection services, required under pertinent sections of these specifications.

1.02 QUALITY
A. Testing laboratory shall be qualified in accordance with ASTM E 329 'Recommended practice for Testing Agencies for Concrete and Steel Used in Construction'.

B. Personnal for inspection and testing shall be thoroughly trained and experienced in the necessary skills, completely familiar with the requirements specified, pertinent portions of the contract documents, and standards for inspecting and testing for the required purposes.

PART 2 -- PRODUCTS
2.01 PRINCIPAL ITEMS REQUIRING TESTS INCLUDING BUT NOT LIMITED TO:

A. Testing of unidentified structural steel and reinforcing steel.
B. Inspection of all welding.
C. Concrete sampling and taking cylinders.
D. Concrete compression tests.
E. Concrete mix design.
F. Inspection of concrete reinforcement placement.
G. Inspection of concrete placement.
H. Testing and inspections of glued laminated wood members.

2.02. TEST REPORTS
A. Distribution
The testing agencies shall report the results of all tests directly and simultaneously to the Owner, Architect, Contractor, and Structural Engineer.

B. Responsibility: The reports shall be signed by a Professional Engineer registered to practice in the appropriate discipline.

2.03 SCHEDULE FOR TESTING

A. Establishing Schedule
1. By advance discussion with the testing laboratory selected by the Owner, determine the time required for the laboratory to perform its tests and to issue its findings.
2. Provide all required time within the construction schedule.
B. Revising Schedule
When changes of construction schedule are necessary during construction, coordinate all such changes of schedule with the testing laboratory as required.
C. Adherance to Schedule
When the testing laboratory is ready to test according to the determined schedule but is prevented from testing or taking specimens due to incompletenees of the work, all extra costs for testing attributable to the delay may be back-charged to Contractor and shall not be borne by the Owner.

PART 3 -- EXECUTION
3.01 TESTING LABORATORY DUTIES AND LIMITATIONS OF AUTHORITY
A. Testing Laboratory Duties
1. Cooperate with the Architect and Contractor.
2. Provide qualified personnel promptly on notice.
3. Perform specified sampling, testing and inspecting of materials for compliance with requirements of Contract Documents.
4. Promptly notify Architect and Contractor of any irregularities or deficiencies of work which are discovered during the construction.
5. Certify in writing to the Architect and the Owner that the test results meet or exceed the Specification requirements.
B. The Testing Laboratory is not authorized to;
1. Release, revoke, alter or enlarge on requirements of Contract Documents.
2. Approve or accept any portion of the work not in conformance with specified requirements.
3. Perform any of the Contractor's duties.
C. Persons Authorized to Order Tests
The following shall be the only persons authorized to order tests specified:
1. The Owner and his duly authorized representative.
2. The Architect and his duly authorized representative.
3. The building Department Inspector, but only upon notice to the Architect's representative that he intends to order additional testing.

3.02 PAYMENT FOR TESTS
A. Owner payment
Initial tests of items in scope of work will be paid by the Owner.
B. Limitations of payment by Owner:.
payment will be made by Owner for the first test of material and workmanship, and for authorized retesting where the results of the retests are satisfactory. If the Contractor covers work before it has been inspected and tested, the costs for retesting defective materials and workmanship, together with the cost of replacement of defective work shall be borne by the Contractor.

3.03 COORDINATION
The Contractor shall cooperate fully with the testing laboratory's personnel and with special inspectors in inspecting any part of the construction and in taking any samples of materials required to be tested. The Contractor shall provide access to the work. The Contractor's personnel shall furnish and cut or prepare all samples in the presence of either the testing laboratory personnel or the special inspectors and secure the witness's initial on each sample prepared. Notify the testing laboratory to send a bonded messenger to pick up the initialed samples the same day the samples were prepared. The Contractor shall alert the testing laboratory 24 hours in advance as to the times and location of the required sampling, tests and inspections so as to not delay the work of the project, and make sure that the required sampling, tests inspections are promptly completed.

3.04 TAKING SPECIMENS
All specimens and samples for testing, unless otherwise provided in these Contract Documents, will be taken by the testing laboratory; all sampling equipment and personnel will provided by the testing laboratory; and all deliveries of specimens and samples to the testing laboratory will be performed by the testing laboratory.

SECTION 03100 - CONCRETE FORMWORK

PART 1 GENERAL
1.01 SCOPE OF WORK

Furnish all labor materials, equipment and services necessary to provide all concrete formwork, complete in place, as shown on the drawings or specified herein.

1.02 REFERENCE STANDARDS
A. American Concrete Institute Standard ACI 347 - 'Recommended Practice for Concrete Formwork' and ACI 318 'Building Code Requirements for Reinforced Concrete', latest edition.
B. West Coast Lumbar Inspection Bureau 'Standard Grading Rules for West Coast Lumber', current edition.
C. Uniform Building Code, current edition.
D. Product Standard PS-1.

SECTION 03100 - CONCRETE FORMWORK (cont.)

1.03 SUBMITTALS
A. Formwork design submittals are not required on this project.
B. The form layout, snap tie locations and construction joint layout shown on drawings is for design compliance only. The contractor shall be responsible for dimensions at job site, fabrication process and techniques of construction and structural requirements of formwork.

1.04 COORDINATION
A. All pipe sleeves, anchors and bolts, including those for angle frames, insert supports, ties and other material in connection with concrete construction, shall be secured in position before the concrete is placed.
B. The contractor shall obtain information and instructions from other trades and suppliers in ample time to schedule and coordinate the installation of items furnished by them to be embedded in concrete so that provisions for their work can be made without delaying the project.
C. Cutting and/or patching made necessary by failure of delay in complying with these requirements shall be made at no cost to the Owner.

1.05 PRODUCT HANDLING
A. Protection: Protect formwork materials before, during and after installation and protect the installed work and materials of all other trades.
B. Replacements: In the event of damage, immediately make all repairs and replacements necessary to the acceptance of the Architect at no additional cost to the Owner.

PART 2 -- PRODUCTS
2.01 MATERIALS
A. Earth Forms: Unless otherwise indicated or required by the Structural Drawings, concrete for grade beams, footings and similar below-grade structures may be placed directly against vertical excavated surfaces provided the material will stand without caving and provided that minimum reinforcing steel clearances indicated on Drawings are maintained and suitable provisions are taken to prevent raveling of top edges or sloughing of loose material from walls of excavation and shall be made with a neat cut. Concrete which is exposed to view or exterior shall be formed to a minimum depth of 6" below finished grade.
B. WOOD FORMS
1. Exposed Concrete Not Otherwise Noted or Specified: DFPA graded HDO (High Density Overlaid) Plyform, Class I or II (as per strength and tolerance requirements), Exterior, each piece grade marked. Exception: Edge forms for slabs on grade.
2. All Other Surfaces: metal, spreader type, removable to 1" from concrete face. Wire ties and wood spreaders will not be allowed except that such devices may be permitted for footings, shallow foundations and similar other totally concealed below grade surfaces upon specific approval of Architect. Wood spreaders shall not remain is concrete.

2.02 OTHER MATERIALS
All other materials, not specifically described but required for proper completion of concrete formwork, shall be as selected by the Contractor subject to the acceptance of the Architect.

PART 3 -- EXECUTION
3.01 GENERAL
Construct forms as specified for the purpose, rigidly constructed and providing for special built-in features and details, as indicated.

3.02 FORMWORK DESIGN
1. Forms shall be designed by a State of California Licensed Civil or Structural Engineer in accordance with the reference standards.
2. Design all forms in strict compliance with ACI 347, latest edition.

3.03 CONSTRUCTION OF FORMS
A. Rigidly support and substantially construct forms; erect plumb, straight and true to line, shape, and dimensions, and in precise position to form the lines and designs indicated, suitable for removal without prying against concrete. Make forms tight without cracks or holes so as to prevent loss of fine particles from the concrete.
B. Construction Joints: Construction joints shall be in accordance with requirements of Cast-in-place concrete, Division 3. Joints in a continuous line shall be straight, and true.
C. Openings: Provide cleanout ports of formwork. Do not fasten the bottom board in wall forms until just prior to placing concrete.
D. Chamfers and Bevels: Provide beveled corners on all external concrete corners by fitting 3/4" triangular strip at angles.
E. Reglets, Rebates, Seats and Pickets:Form as indicated or required to receive or engage related work. These include provisions for flashings, anchors, etc. Verify dimensions and details. Do not permanently cast wood into concrete, except where wood nailers are specifically indicated.
F. Embedded Items:
1. Conduit in slabs on grade: Do not embed piping or electrical conduit in structural concrete unless specifically approved in writing by the Structural Engineer.
2. Anchors and Rough Hardware: Accurately secure so that they will not be displaced during concrete placement and finishing.
I. Form Sealer:
Apply form sealer to forms prior to placing reinforcement. Apply in strict conformance with the latest printed recommendations of the sealer manufacturer.
J. Tolerances:The following maximum tolerances shall be allowed for form construction:
1. Supported slabs, bases and wall thickness: +/- 1/8"
2. Wall centerline location: +/-1/4"
3. Columns: +/-1/4" in any one story and +/-1/4" to ground reference point.
4. Slabs on grade thickness: +/-1/2"
5. All other: +/-1/2"

3.04 REUSE OF FORMS
Clean and repair the surfaces of forms that are to be reused, except that split, frayed, delaminated or otherwise damaged forms shall not be reused. Apply new form coating material to all contact areas. When forms are extended for successive concrete placement, thoroughly clean surfaces and remove fins and laitance.

3.05 REMOVAL OF FORMS
A. The removal of forms and falsework shall be carried out in such a manner as to ensure the complete safety of the structure. Supports shall not be removed until members have sufficient strength to safely support their own weight and any superimposed loading with proper factor of safety.

3.06 CLEAN UP
During the progress of the work, the premises shall be kept free from debris and waste materials resulting from the work of this Section. Upon completion, all surplus materials and debris shall be removed from the site.

SECTION 03200 - REINFORCING STEEL

PART 1 GENERAL
1.01 SCOPE OF WORK
Furnish all labor, materials, equipment and services necessary to provide all concrete reinforcing steel, complete in place, as shown on the drawings or specified herein.

1.02 QUALITY

A. Qualifications of Workmen: Workmen shall be thoroughly familiar with the type of materials being installed and the best methods for their installation
B. Codes and Standards:
1. In addition to complying with all pertinent codes and regulations, comply with all pertinent recommendations contained in the following:
a. 'Manual of Standard Practice for Detailing Reinforced Concrete Structure', ACI 315.
b. 'Building Code Requirements for Reinforced Concrete', ACI 318.
c. Uniform Building Code, current Edition.
d. 'Placing Reinforcing Bars', Concrete Reinforcing Steel Institute.
2. Where provisions of pertinent codes and standards conflict with this Specification, the more stringent provisions shall govern.

1.03 SHOP DRAWINGS
A. Submit shop drawings for review: One sepia and two prints each.
1. Fully detailed shop drawings, including bending schedules and bending diagrams. Shop drawings shall show placing details and size and location of all reinforcing steel.
2. Reinforcing steel shall not be fabricated or placed before the shop drawings have received final review and returned to the Contractor. Review of shop drawings by the Architect and/or Structural Engineer will not relieve the Contractor of responsibility for errors or for failure in accuracy and complete placing of the work.
B. Mill Test Reports:
Certified mill test reports (tensile and bending) for each heat or melt of steel shall be submitted to the Architect before delivery of any material to the job site.

1.04 PRODUCT HANDLING

A. Take all means necessary to protect reinforcing steel before, during, and after installation and to protect the work and materials of all other trades.

1.05 SAMPLING, TESTING, AND INSPECTING OF REINFORCING STEEL
A. Identified Reinforcing Steel:
No testing of reinforcing steel will be required if reinforcing is taken from bundles identified with heat number accompanied by mill analysis and mill test reports, and is properly tagged with an identification certificate.
B. Unidentified Reinforcing Steel:
The Contractor shall pay for tests to determine that the steel complies with the ASTM A615 Specifications. Tests shall be performed by a Certified Testing Laboratory acceptable to the Architect and the Owner. One tensile and one bend test shall be made for each 5 tons or fractional thereof of each size of reinforcing steel.
C. Where special inspection is required per UBC section 306, installation and placement of reinforcing steel shall be inspected by an authorized inspector prior to concrete pour.

PART 2 -- PRODUCTS
2.01 REINFORCING STEEL
A. Reinforcing Bars:
1. New, free of loose rust.
2. Billet-Steel Bars: ASTM A615, Grade 40 for #4 and #3, Grade 60 for #5 bars and larger.
3. Bars to be welded shall be weldable steel ASTM A706 Grade 40 for #3 and #4, Grade 60 for #5 and larger.
B. Welded Wire Fabric: ASTM A 185.
C. Welding Electrodes as recommended by AWS D1.4-79.
D. Tie Wire: 16 gauge minimum, black and annealed.
E. Accessories: Metal or plastic spacers, supports, ties, etc., as required for spacing, assembling and supporting reinforcing in place.

2.02 FABRICATION
A. Comply with details on Drawings.
B. Where specific details are not shown or noted, do all detailing and fabrication in conformance with requirements contained in the References, Codes and Standards Article.
C. Clean bars of loose rust, loose mill scale and any substance which may decrease bond. Bend bars cold and accurately to details on reviewed shop drawings.
D. Shop fabricate all reinforcement.

2.03 OTHER MATERIALS
All other materials, not specifically described but required for a complete and proper installation of concrete reinforcement, shall be as selected by the Contractor subject to the acceptance of the Owner.

PART 3 -- EXECUTION
3.01 SURFACE CONDITIONS
A. Inspection
1. Carefully inspect the installed work of all other trades prior to installing reinforcing steel and verify that all such work is complete to the point where work may commence.
B. In the event of discrepancy, immediately notify the Architect. Do not proceed with installation in areas of discrepancy until all such discrepancies have been fully resolved.
C. Clean reinforcement of loose mill scale, oil, or other coating that might destroy or reduce the bond before it is placed.

3.02 PLACING
A. General:
Reinforcing steel shall be placed in accordance with the Drawings and reviewed shop drawings and the applicable requirements of the References, Codes and Standards Article. Install reinforcement accurately and secure against movement, particularly under the weight of workmen and the placement of concrete.
B. Reinforcement Supports:
1. Reinforcement shall be accurately located in the forms and held in place by means of supports adequate to prevent displacement and to maintain reinforcement at proper distance from form face. Supports and their placement shall comply with CRSI 'Placing Reinforcement Bars'. The use of wood supports and spacers inside the forms is not permitted.
2. Support reinforcement for all slabs by wiring to precast concrete blocks or chairs spaced 4'-0" o.c. (maximum) both ways, staggered. Size blocks or chairs so the reinforcing is maintained at the center line of the slab.
C. Obstructions:
Wherever conduits, piping, inserts, sleeves, etc., interfere with placing of reinforcing steel, obtain Architect's approval of method of procedure before any concrete is placed. Bending of bars around openings or sleeves is not permitted.
D. Tying:
All reinforcing shall be rigidly and securely tied with steel tie wire at all splices and at all crossing points and intersection in the position shown. All tie wires, after cutting, shall be bend in such a manner that concrete placement will not force the wire ends to surface of concrete.

SECTION 03200 - REINFORCING STEEL (cont.)

E. Splicing:
Make splices only at those locations shown on the Drawings or as approved by the Structural Engineer. Stagger splices in adjacent bars wherever possible.
F. Welded Wire Fabric:
Fabric shall be in as long lengths as practicable and shall be wired at all laps. Edge laps shall be a minimum of 2" c-c of slavage wires and laps shall be a minimum of 2" greater than transverse wire spacing. offset all end laps in adjacent widths. Supply all Fabric in flat sheets, not rolls.
G. Dowels:
Dowels shall be tied securely in place before concrete is deposited. In the event there are no bars in position to which dowels may be tied, No. 3 bars (minimum) shall be added to provide proper support and anchorage. Bending of dowels after placement of concrete will not be permitted.
H. Welding:
No welding or reinforcing steel or of attachments to reinforcing steel will be permitted unless the chemistry of the steel conforms to AWS D1.4-79. All electrodes shall be low hydrogen. All welding material, and wire cuttings, shall be thoroughly cleaned from forms for exposed concrete before any concrete is placed. Tack welding of bars is not permitted for fabricating cages or assemblies.

PART 4 --COMPLETION
4.01 CLEAN-UP
During the progress of the work, the premises shall be kept free from debris and waste material resulting from the work of this section. Upon completion, all surplus material and debris shall be removed from the site.

SECTION 03300 - CAST IN PLACE CONCRETE

1.01 SCOPE OF WORK
Furnish all materials and labor necessary to complete cast-in-place concrete as indicated or specified herein.

1.02 STANDARDS
ACI - American Concrete Institute Sections:
ACI 301 "Specification for Structural Concrete for Buildings."
ACI 304 "Recommended Practice for Measuring, Mixing and Placing Concrete."
ACI 305 "Recommended Practice for Hot Weather Concreting."
ACI 306 "Recommended Practice for Cold Weather Concreting."
ACI 309 "Recommended Practice for Consolidation of Concrete."
ACI 318 "Building Code Requirements for Reinforced Concrete."
ASTM - American Sobiety for Testing and Materials Section:
C-33 "Standard Specification for Concrete Aggregates."
C-39 "Standard Test Method for Compressive Strength of Cylindrical Concrete Specimens."
C-94 "Standard Specification for Ready-Mixed Concrete."
C-143 "Standard Method of Test for Slump of Portland Cement Concrete."
C-150 "Standard Specification for Portland Cement."
C-231 "Standard Test Method for Air Content of Freshly Mixed Concrete."
Comply with the Uniform Building Code, Current Edition and appropriate Sections of the UBC Standards.

1.03 SUBMITTALS
A. Quality Control
Testing laboratory as required for the tests in this section shall be approved by the Owner and shall submit the results of all tests in writing and in the required copies to the Owner. The Owner will be responsible for all testing of the mixed concrete except that the Contractor shall be responsible for all expenses incurred by the Owner for testing and inspection of concrete which replaces concrete previously rejected. The Contractor shall coordinate and cooperate with the Owner in the Owner's testing and inspection program. The balance of testing as required in this Section shall be done at the Contractor's expense.
1. Mix Design: The Contractor, at his expense, shall employ the services of an independent testing laboratory to design concrete mixed for each type of concrete required. The Contractor shall submit representative samples of each type of aggregate and Portland cement to the testing laboratory for analysis and preparation of the mix design. The proportions of the materials and the water content shall be established by tests made in accordance with ACI 211.1 for hardrock concrete and the applicable requirements of the building code. Submit test reports to the parties named above for approval from the Owner at least 7 days prior to the placing of any concrete. No concrete shall be allowed to be poured until mix designs have received final review.
2. Cement:Furnish mill tests for all cement used.
3. Concrete:The Owner shall sample and test as follows:
a. Compression Tests: Make 3 standard test cylinders from each day's placing and each 100 cubic yards, or fraction thereof, of each class of concrete. Date cylinders, number and mote, indicating the point from which the sample was taken. Indicate the slump test and percent air result of sample. Do not make more than 3 cylinders from any one point or batch of concrete.
b. Test Cylinders: Make test cylinders at the job, in accordance with ASTM C-31. Test cylanders ant 7 and 28 days.
c. Slump: Tests shall be in accordance with ASTM C-143.
d. Below Strength Concrete: Should the strength of the concrete, as indicated by the tests, fall below the required minimum, then additional tests on concrete, which the unsatisfactory samples represented, may be required.
4. Transit Mixed Concrete
The manufacturer of the transit mixed concrete shall deliver a certificate with each mix stating the quantity of cement, wetar, fine aggregate and coarse aggregate and mixture contained in the load.
5. Keep a record and make available for inspection at the site, showing the date and time of placing of concrete in each portion of the structure.

STRUCTURAL ENGINEERING
1719 ZANKER ROAD
SUITE 103
SAN JOSE
CALIFORNIA 95112

408-436-8299

MILPITAS SENIOR CENTER PHASE 2
160 North Main
Milpitas, California
Project 3368

RECORD DRAWING
4-1-93

REVISION	DATE
⚠ PHASE 2.	7-17-91
⚠ PHASE 2 RESP TO PLAN CHECK	10-22-91
⚠ ISSUE FOR BID	12/4/91

SPECIFICATIONS

JOB# : 90-001
DRAWN : MC
DATE : 7-17-91
SCALE : NONE

S5.1

2 - 913

S5.2
23/24

2-913

SECTION 03300 - CAST IN PLACE CONCRETE (cont.)

PART 2 --PRODUCTS

2.01 MATERIALS

A. Portland Cement
ASTM C-150, Type I or II, low alkali. The brand of cement shall not be changed during the progress of the job unless approved in writing by the Structural Engineer.
B. Standard Weight Aggregates
ASTM C-33 from approved pits. The maximum size used in a particular location shall be consistent with the form and locations and spacing of the reinforcing steel and with the method of vibration. The aggregate sized shall be such as will produce dense, uniform concrete, free of rock pockets, honeycombs or other irregularities.
C. Water : Clean and free of deleterious amounts of acid, alkalis, salt, oils or organic substances.
D. Admixtures: Except as otherwise specified, admixtures, if used, shall be supplied by one manufacturer and batched in strict accordance with manufacturer's recommendations throughout project. Admixture brands are subject to prior written acceptance of the Structural Engineer. All concrete shall contain an air entraining admixture conforming to ASTM C-260.

2.02 CONCRETE

A. All concrete shall be regular weight concrete weighing approximately 150 pounds per cubic foot. Contractor shall be solely responsible for the design of concrete mixes to meet all the requirements of the Specifications.
B. All concrete shall contain 1" maximum aggregate and shall attain a 28 day compressive strength of 3000 PSI except exterior site concrete which shall attain a 28 day compressive strength of 2000 PSI.
C. Slump limits: minimum 2", maximum 4" as per ASTM C-143.
D. Air entrainment limits: minimum 3.5% maximum 4.5%.
E. Admixtures:Admixtures shall be of the strength recommended by the manufacturer, but shall not cause retardation greater than 90 minutes.
F. Non-Shrink Grout:An approved packaged product, Burke No. (324) 57-100 or equal complying with USA Corps. Specification CRD-C 621, 6000 psi.
G. Cement Grout:

2.03 MISCELLANEOUS

A. Expansion Joint Fillers: ASTM D1751, asphaltic compound strips, 1/4" thick unless otherwise noted, pre-cut to proper size.
B. Curing Materials:ASTM C-171 Moisture Retaining Cover; ASTM C-309 Liquid Membrane. Material shall not contain hydrocarbon substances.
C. Vapor Barriers:Vapor barrier below concrete shall be 6 mil, minimum, polyethylene sheeting, in sheets as wide as possible to minimize joints. Tape or glue joints per the manufacturer's recommendations.
D. Sand for Cushion:Clean and free of organic matter or deleterious material.
E. Joint Sealant:"Sonolastic Sealant Two-part" as manufactured by Sonneborn Conteck, Building Products Division, Contech, Inc., 330 Brush Street, Oakland, CA 94607, (415) 839-1710, or approved equal. Bond breaker tape to be as recommended by sealant manufacturer.
F. Backer Rod:"Sonofoam Backer-Rod" as manufactured by Sonneborn-Conteck, Building Products Division, Contech, Inc., or approved equal.

2.04 OTHER MATERIALS

All other materials, not specifically described but required for a complete and proper installation of the cast-in-place concrete shall be as selected by the Contractor subject to the acceptance of the Architect.

PART 3 -- EXECUTION

3.01 GENERAL

A. Preparatory Provisions
Prior to placement of concrete this Contractor shall be responsible for the examination and acceptance of all conditions affecting the proper installation of his work and shall not proceed until all unsatisfactory conditions have been corrected.
B. Notify the Architect at least 48 hours before placing concrete.

3.02 SURFACE CONDITIONS

A. Inspection: Prior to all work of this Section, carefully inspect the installed work of all other trades and verify that all such work is complete to the point where this installation may properly commence.
B. Discrepancies:In the event of discrepancy, immediately notify the Architect. Do not proceed with installation in areas of discrepancy until all such discrepancies have been fully resolved.

3.03 PREPARATION

A. General:Thoroughly clean the areas to ensure proper placement and bonding of concrete.

3.04 MIXING

Concrete shall be ready mixed as per ASTM C-94. No water shall be added to the mix after the initial introduction of mixing water for the batch except when, on arrival at the job site, the slump of the concrete is less than that specified.

3.05 TRANSIT-MIX DELIVERY SLIPS

A. Keep a record at the job site showing time and place of each pour of concrete, together with transit-mix delivery slip certifying contents of the pour. Delivery tickets shall show departure time from plants. Records shall be made available to the Architect.

3.06 PLACING

A. All absorbent forms shall be thoroughly wetted down before concrete is placed. Subgrade for slabs on grade shall be moist but not saturated when concrete is placed.
B. Placing of concrete shall be done immediately after mixing. No concrete shall be placed or used after it has begun to set and no re-tempering will be allowed. The method used in placing shall be such that concrete is conveyed to place and deposited without separation of the ingredients. No concrete shall be placed with a free unconfined fall in excess of five (5) feet nor shall it be as to promote segregation. Do not support runways on reinforcing steel.
C. Splash or accumulations of hardened or partially hardened concrete shall be removed as directed.
D. Deposit concrete in approximate horizontal layers not exceeding 18" thickness, unless otherwise authorized. Placing of concrete shall be carried on in a continuous operation without interruption until placing, of course, section, panel or monolith is completed.
E. Distribution of concrete shall be even and continuous and no pour joints shall show.
F. No concrete shall be placed for any element until all reinforcing for same is fastened in place nor until forms are complete. No concrete shall be placed before all work that is to be embedded has been set. Reinforcing or other materials that have been set shall not be disturbed.
G. No pipes or conduits shall be embedded in structural concrete unless specifically approved by the Structural Engineer prior to embedment. Before placing concrete all pipes and conduits that pass thru a wall or slab shall be sleeved providing 1/4" clearance (minimum) all around. Sleeves shall be positioned so as not to impair strength of surrounding elements. Sleeves and inserts will be provided and set under other Sections of the work.

SECTION 03300 - CAST IN PLACE CONCRETE (cont.)

H. Verify depths of depressed slab conditions for suitability with type and method of surfacing to be applied over concrete.
I. Install various inserts, anchorages, etc. required by public and private utility companies to accommodate miscellaneous metal items and equipment furnished by them.
J. Concrete and/or grout shall be removed from all surfaces that will receive painter's finish.
K. Place no concrete in water unless written permission has been obtained from the Structural Engineer.

3.07 VIBRATION AND COMPACTION

A. All concrete over 6 inches in depth shall be thoroughly compacted by means of internal mechanical vibrators. Under no condition shall vibrator be placed against reinforcing steel or attached to forms. Use no vibrators to transport materials.

3.08 CONSTRUCTION JOINTS

A. Placement of construction joints and the manner in which they are provided for shall be only as approved by the Structural Engineer or as shown on the drawings. Construction joints shall be as few as possible and will not be permitted simply to save forms.
B. All construction joints including keys shall be cleaned and roughened by removing entire surface and exposing clean aggregate solidly embedded by means of sandblasting or other approved methods.

3.09 CURING FORMED CONCRETE

Keep all formed concrete surfaces continuously wet both in forms and after removal of forms for at least seven (7) days after placing. If forms are permitted to be removed prior to expiration of curing period, exposed concrete surfaces shall be kept continuously wet by means of fog sprays or non-staining cotton or burlap mats kept moist. Plastic sheathing is not permitted. Alternatively, if chemical curing compond is to used, the curing compond must meet the moisture retention requirements of ASTM C 309 at the coverage used on the job. Componds Confilm by Master Builders or Sikagard by Sika or approved equal.

3.10 EXPANSION

A. Expansion Joints and Edging shall be provided at all locations where concrete paving abuts buildings, curbs, or other structures.

3.11 GROUTING OF STEEL BASE PLATES

A. All grout used for the grouting of base plates shall be non-metallic, non-shrink grout mixed and applied in strict accordance with manufacturer's directions.
B. All grouting of bases shall be carefully done so as not to leave any voids between the base plates and the concrete.

3.12 MEMBRANE AND SAND CUSHION

A. Membrane: Place completely over capillary break material subgrade. Lap joints 6 inches, minimum and continuously tape or glue per manufacturers recommendations
B. Sand Cushion: Place a sand cushion on top of membrane immediately after placing membrane.

3.13 HOT AND COLD WEATHER REQUIREMENTS

A. Cold Weather Placing: Mix and place concrete per ACI 604 "Recommended Practice for Winter Concreting Methods", except use of calcium chloride not permitted.
B. Hot Weather Placing: Place concrete at lowest practicable temperature. When hot weather conditions would seriously impair quality and strength of concrete, place concrete per ACI 605 "Recommended Practice for Hot Weather Concreting", except as otherwise indicated.

3.14 QUALITY CONTROL

A. Testing and inspection services shall be retained by the Owner at his expense except that where excessive inspection and testing costs result from the Contractor's scheduling of work or his construction operations or when tests or inspections reveal failure of materials to meet contract requirements, all such excessive costs and all costs for subsequent tests and inspections will be deducted from the Contract price.

3.15 LEVELING AND FINISHING

A. General: Tamp slabs with a jitterbug to depress the rock,and then pushfloat with a bullfloat as necessary.
B. Finishes: All floor slabs shall have a monolithic finish. Screed concrete to accurate level grades and tamp with approved metal grid tamper to bring fines to top. Delay troweling until water sheen has disappeared. No dusting will be permitted. Finished floors shall contact a 10'-0" straight edge between changes in slope with a plus or minus tolerance of not to exceed 1/8". Cement floors shall be sloped to floor drains as indicated. Finished surfaces shall be as follows:
a. Exposed concrete floors, concrete floors to receive resilient flooring and carpet and concrete stair landings shall be screeded to an even,level plan, floated and steel troweled to a smooth hard finish. Surface shall be free from depressions, trowel marks, scale and foreign deposits.
b. All exterior slabs shall be screeded, floated and steel troweled smooth and given a medium broom finish.
2. Formed Surfaces: Patch holes and defects and rub down fins using wood blocks. Otherwise, surfaces shall be left with the texture imparted by the forms.

3.16 CONCRETE SURFACE REPAIRS

A. Patching Defective Interior concrete or Concrete Surfaces: Repair and patch defective areas with cement mortar immediately after removal of forms. Cut out honeycomb, rock pockets, voids over 0.6 cm (1/4") in any dimension, down to solid concrete, but, in no case, to a depth of less than 2.5 cm (1"). Make edges of cuts perpendicular to the concrete surface. Before placing the cement mortar, thoroughly clean, dampen with water, and brushcoat the area to be patched with neat cement grout. Repair exposed-to-view formed concrete surfaces that contain defects that adversely affect the appearance of the finish. Remove and replace the concrete having defective surfaces if the defects cannot be repaired to the satisfaction of the Architect. Correct high areas in surfaces by grinding, after the concrete has cured sufficiently so that repairs can be made without damage to adjacent areas. Correct low areas in surfaces during, or immediately after, completion of surface finishing operations by cutting out the low area and replacing with fresh concrete.

N.A.

SECTION 05210 - STEEL OPEN WEB JOISTS & GIRDERS

PART 1 - GENERAL

1.01 SCOPE OF WORK

Furnish all labor, materials and equipment and services necessary to provide all steel open web joists and open web girders, complete in place as shown on the drawings or specified herein.

A. Work Specified in this Section
1. Steel open web joists, steel open web girders, bridging and accessories in connection with steel open web joists and girders and their erection.
2. Welding, bolting and furnishing anchors, clips, hanger rods, clevises, turnbuckles and other required accessories for installing the work of this Section.
3. Shop painting.
4. Field painting.
5. Shop drawings and design submittals.

B. Related Work Specified in other Sections
1. Structural Steel ------------------Section 05100
2. Metal Decking ---------------------Section 05300
3. Metal Fabrications ----------------Section 05500

1.02 STANDARDS

A. American Welding Society (AWS) Publications: "Structural Welding Code, Steel", D1.1-80.
B. American Institute of Steel Construction (AISC) Manual, 8th Edition: and Steel Joist Institute Specifications.
Standard Specifications for Open Web Steel Joists, & Open Web Girders
C. Steel Structures Painting Council (SSPC) Specification: PS 14.01
Steel Joist Shop Paint System

1.03 SUBMITTALS

A. Manufacturer's Data
1. Producer's or manufacturer's specifications and installation instructions for the following products. Include laboratory test reports and other data as required to show compliance with specified requirements:
a. Structural steel (each type) , including certified copies of mill reports covering chemical and physical properties.
b. Bolts (each type) including nuts and washers.
c. Structural steel primer paint.
2. Certificates of conformance or compliance for joists and accessories.

B. Shop Drawing & Design Calculations
Submit copies of design calculations, shop details, and erection details signed by a State of California registered Civil or Structural Engineer retained by the Contractor to the Architect. Fabrication shall not be started until review is completed and shop drawings have been returned to the Contractor.
1. Shop drawings including complete details and schedules for fabrication and shop assembly of members. Include details of cuts, connections, camber, holes, and other pertinent data. Indicate welds by AWS symbols, and show size, length, and type of weld. Provide erection drawings. Identify details by reference to sheet and detail number on drawings. Shop drawings shall show joist type and size, layout in plan, methods of anchoring, framing at openings, spacing of bridging, and requirements for field welding.
2. Design calculations shall include complete analysis and design of joists and girders being supplied including, but not limited to design criteria used, design assumptions, member stresses and deflections, camber and connection design. Design shall be in conformance with criteria as put forth on the drawings and the applicable codes and standards.

1.04 PRODUCT HANDLING

A. Delivery and Storage
Deliver all materials to the job site properly marked to identify the structure for which it is intended. Marking shall correspond to marking indicated on the Shop Drawings. Store in a manner in maintain identification and to prevent damage.
B. Replacements
In the event of damage, immediately make all repairs and replacements necessary to the approval of the Architect at no additional cost to the Owner.

1.05 QUALITY ASSURANCE

A. Shop Welding
AWS D1.1 Perform welding with qualified welders. The qualification of welders and the duration of qualification period shall be in accordance with the requirements of AWS D1.1. Welders who have not performed welding for the period of three or more months shall be requalified.
B. Mill reports as specified in Section 1.03.

PART 2 - PRODUCTS

2.01 MATERIAL

A. Steel
The steel used in the manufacture of chord and web section shall conform to one of the following ASTM Specifications of latest adoption:
1. Structural Steel, ASTM A36.
2. High-Strength Low-Alloy Structural Steel, ASTM A242.
3. High-Strength Low-Alloy Structural Manganese Vanadium Steel, ASTM A441.
4. Hot Rolled Carbon Steel Sheets and Strip, Structural Quality ASTM A570.
5. High-Strength Low-Alloy Columbium-Vanadium Steel of Structural Quality, ASTM A572 Grades 42, 45, and 50.
6. High-Strength Low Alloy Structural Steel with 50,000 psi Minimum Yield Point to four inches thick, ASTM A588.
7. Steel Sheet and Strip, Hot-Rolled and Cold-Rolled, High-Strength, Low-Alloy, with Improved Corrosion Resistance, ASTM A606.
8. Steel Sheet and Strip, Hot-Rolled and Cold-Rolled, High-Strength, Low-Alloy, Columbium-Vanadium, ASTM A607 Grades 45 and 50.
9. Steel, Cold-Rolled Sheet, Carbon Structural, ASTM A611 Grade D.

B. Joists and Accessories
Except as otherwise specified herein, joists and accessories shall be in accordance with the applicable SJI and AISC Standard Specifications.

C. Welding Electrodes
The following electrodes shall be used for arc welding:
For connected members both having a specified minimum yield strength greater than 36,000 psi

AWS A5.1 or A5.5, E70XX
AWS A5.17, F7X, EXXX flux electrode combination
AWS A5.18, E70S-X or E70U-1
AWS A5.20, E70T-X

D. Shop Painting
Clean and prime joists in accordance with SSPC PS 14.01, Steel Joists Shop Paint System, except that paint shall conform to SJI Specifications and shall be suitable for top coating.

E. Paint
Paints used for touchup and shop painting may contain toxic lead or zinc compounds. Appropriate measures shall be taken by the Contractor to control worker exposure to toxic substances during their use.

F. Machine bolts; ASTM A307

N.A.

SECTION 05210 - STEEL OPEN WEB JOISTS & GIRDERS (cont.)

PART 3 - EXECUTION

A. Installation
Each joists shall be adequately braced laterally before the next joists is erected and before any loads are applied. If lateral support is provided by bridging, the bridging lines as defined below must be anchored to prevent lateral movement. Hoisting cables shall not be released until one line of bolted bridging nearest the third points of the span for spans up to 100 feet and all bridging lines for spans over 100 feet are installed. During the construction period, the Contractor shall provide means for the adequate distribution of concentrated loads so that the carrying of any joist is not exceeded.

B. Handling
Except as otherwise specified herein, handling and erection shall be in accordance with the applicable SJI Standard Specification for the joist series indicated. Provide sufficient bracing, shoring, and guying to effect safe and satisfactory erection. Provide bracing and shoring capable of holding steel work plumb and properly aligned while field connections are being made. It shall be the Contractor's full responsibility to provide the necessary complete temporary bracing for safe erection of structure.

C. Field Welding of Steel Joists:
AWS D1.1. Perform welding with qualified welders. The qualification of welders and the duration of qualification period shall be in accordance with the requirements of AWS D1.1. Welders who have not performed welding for a period of 3 or months shall be requalified. Welders whose work fails to pass inspection shall be requalified before performing further welding. Contractor shall pay costs of certifying qualifications.

D. Touch up Painting
After erection of joists, connections and areas of abraded shop coat shall receive touch up paint of the same type used for shop coat.

E. Assemble work where indicated with ASTM A307 bolts, ASTM A325 bolts, or field welding as specified. Provide for erection bolting of all open web joists and girders.

SECTION 05500 - STRUCTURAL STEEL

PART 1 -- GENERAL

1.01 GENERAL

Furnish all labor, materials, equipment and services necessary to provide all structural steel, complete in place, as shown on the drawings or specified herein.

1.02 DESCRIPTION

A. Work Included:
Structural steel required for this Work is indicated on the drawings.

1.03 QUALITY ASSURANCE

A. Qualifications of Suppliers and Personnel:
1. The steel fabricator shall have not less than five years continuous experience in the fabrication of structural steel.
2. The steel erector shall have not less than five years continuous experience in the erection of structural steel.
3. All welding shall be performed by welders and operators who have been recently qualified as prescribed in "Qualification Procedure" of American Welding Society.

B. Tests and Testing
1. Steel shall be tested, if required, in tension in accordance with ASTM A370.
2. Submit mill analysis and test reports for acceptance. Where samples are taken from steel as delivered from the mill identified as to heat number and provided the mill analysis and test reports accompanies the submittal, then no tests will be required.
3. Where positive identification of heat number cannot be made, then one series of tests shall be made for each five tons or fractional part thereof of each size of member used, in which case costs of tests shall be borne by the Contractor.
4. Steel that is delivered to the job without being accepted before shipment will be rejected and must immediately be removed from the premises.

C. Codes and Standards:
In addition to complying with all pertinent codes and regulations, comply with:
1. "Specification for the Design, Fabrication, and Erection of Structural Steel for Buildings: of the American Institute of Steel Construction (A.I.S.C.).
2. Structural Welding Code: Steel ASW D1.1-82.
3. Applicable ASTM specifications for steel items specified.
4. "Specifications for Structural Joints using ASTM A325-75 and A490-75 Bolts", by the Research Council of Rivited and Bolted Structural Joints of the Engineering Foundation.
5. Federal specifications for red lead and zinc chromate paint.
6. Current Uniform Building Code.

D. Conflicting Requirements:
In the event of conflict between pertinent codes and regulations and the requirements of the referenced Standards or these Specifications, the provisions of the more stringent shall govern.

1.04 SUBMITTALS

A. Shop Drawings and erection details including cuts, copes, connections, holes, threaded fasteners and welds. Show all locations, markings, quantities, materials, sizes and shapes.
B. Reports:For information and record:
1. Proofs of qualifications for welders.
2. All certificates, tests and inspections - whether shop or field required.

1.05 PRODUCT HANDLING

In the event of damage, immediately make all repairs and replacements necessary to the acceptance of the Architect at no additional cost to the Owner.

PART 2 --PRODUCTS

2.01 STRUCTURAL STEEL

A. All steel shapes, bars and plates: ASTM A36.
B. Structural tubing: ASTM A500, Grade B
C. Welded Studs: Nelson Studs type S3L or H4L as approved for the required concrete strength.
D. Non-shrink Grout: Embeco or an approved equal.

2.02 BOLTS AND NUTS AND WASHERS

A. Machine Bolts - ASTM A307 (shall have threads excluded from the shear plane).
C. Anchor Bolts: ASTM A307.
D. Nuts: ASTM A563.
E. Washers: ASTM A436.

2.03 PRIMER PAINT

Conform with Federal Specification TT-P-645A

STRUCTURAL ENGINEERING

1710 ZANKER ROAD
SUITE 103
SAN JOSE
CALIFORNIA 95112

408-436-0200

MILPITAS SENIOR CENTER PHASE 2
160 North Main
Milpitas, California
Project 3360

RECORD DRAWING
4-1-93

REVISION	DATE
△ PHASE 2.	7-17-91
△ Phase 2 Issue for review	10-22-91
△ Issued for Bid	12/1/91.

SPECIFICATIONS

JOB# : 90-001
DRAWN : MC
DATE : 7-17-91
SCALE : NONE

△ S5.2

2 - 913

S5.3
24/24

2-913

2.04 FABRICATION
A. General: Fabricate all structural steel in strict accordance with the final Shop Drawings and the referenced Standards.
B. Fabricate and preassemble work in shop to greatest extent possible.
C. Where connection is not shown, design in accordance with standard practices in a manner similar to like connections shown, unless otherwise directed by the Architect.
D. Shop cleaning and priming:
1. Thoroughly clean all structural steel and assemblies, removing rust an scale, and shop prime with one coat of primer paint, except:
a. Surfaces to be encased in concrete.
b. Surfaces to be field welded.
2. Thoroughly clean all steel to be encased in concrete or fireproofed.
E. Holes for bolted connections shall be drilled or punched 1/16" larger than bolt diameter. Holes in base plates for anchor bolts may be 5/16" oversize.

2.05 WELDING
A. General:
1. For details of joints, comply with requirements for AISC welded joints.
2. Electrodes for shielded metal arc welding: AWS A5.1 E70XX. Electrodes for submerged arc welding: AWS A5.17 F7X-EXXX.
3. Follow applicable sections of AWS specifications D1.1.
B. Types of Welds: Unless otherwise noted:
1. Make all fillet welds 3/16" minimum.
2. Make all butt welds complete penetration welds, using back-up or chip and back weld.
3. Welds not required to be complete penetration welds are specifically noted on the Drawings.

2.06 OTHER MATERIALS
All other materials not specifically described but required for a complete and proper installation shall be new, free from rust, first quality of their respective kinds, and subject to the acceptance of the Owner.

PART 3 -- EXECUTION
3.01 SURFACE CONDITIONS
A. Inspection:
1. Prior to installation of the work of this Section, carefully inspect the installed work of all other trades and verify that all such work is complete to the point where this installation may properly commence.
B. Discrepancies:
In the event of discrepancy, immediately notify the Architect. Do not proceed with fabrication of installation in areas of discrepancy until all such discrepancies have been fully resolved.

3.02 ERECTION
A. General:
Erect all steel in strict accordance with the Drawings, the Shop Drawings bearing the Reviewer's Final Stamp, and all pertinent Regulations and Standards. Particular attention shall be given during fabrication and erection to maintain true lines and plumb members with tolerance conforming to Section 1.23.8 of the AISC Specifications and Section 7 of the AISC Code of Standard Practice for Steel Buildings and Bridges.
B. Bolting:
Comply with AISC requirements.
C. Field Welding:
Comply with requirements given for welding under Part 1 and Part 2 above.
D. Tolerance:
Set all steel members in true alignment within a tolerance of one in 500.
E. Touch-Up:
After erection is complete, touch -up shop prime coats damaged during transportation and erection, and prime exposed field welds and field bolts, using prime paint specified for shop priming.
F. Cleaning Up:
After erection is complete, touch-up shop prime coats damaged during transportation and erection, and prime exposed field welds and field bolts, using prime paint specified for shop priming.
G. Welded shear studs:
Shall be shop fillet and plug welded or automatically end welded accordance with the manufacturer's recommendation as indicated on the drawings.

3.03 INSPECTION
A. Material and workmanship at all times shall be subject to the inspection of the Owner, Architect, Engineer and/or the Testing Laboratory.
B. Material or workmanship not conforming to provisions of this specification shall be rejected at any time defects are found during the progress of the work.
C. Shop and Field Welding:
Continuous inspection of welding in the field shall be required during the time of welding. In addition, all complete penetration welds shall be ultrasonically tested by the Laboratory, unless some other means of proving the compliance of the welds is designated by the Structural Engineer. Procedures and criteria for acceptance fo welds shall be per AWS D1.1.
D. Welding Inspector:
Inspection of all shop and field welding operations shall be made by a qualified welding Inspector selected by the Owner.

3.04 TESTS
A. All tests shall be made by a Testing Laboratory selected and provided by the Owner.
1. Identified Material:
If steel can be identified by heat or melt number and is accompanied by mill analysis and test reports, commercial stock may be used. The Contractor shall furnish the certified mill test reports.
2. Unidentified Material:
When material cannot be identified or its source is questionable, one set of physical tests shall be made for each five tons or fractional part thereof of each size, at the Contractor's expense.

SECTION 06100 - ROUGH CARPENTRY

PART 1 -- GENERAL
Furnish all labor, materials, equipment and services necessary to provide all concrete reinforcing steel, complete in place, as shown on the drawings or specified herein.

1.01 QUALITY ASSURANCE
A. Governing Specifications:
Materials and installation of Rough Carpentry shall comply with pertinent provisions of the following:

1. Douglas Fir, Hemlock and Cedar:	"Standard Grading and Dressing Rules for west coast lumber Number 16, January 1978 edition, published by the West Coast Lumber Inspection Bureau.
2. Redwood:	"Standard Specifications for Grade of California Redwood Lumber", 1975, published by Redwood Inspection Service.
3. Plywood:	Product Standard PS-1~~85~~ of the U.S. DepartmentofCommerce, Bureau of Standards.

4. Pressure Treatment:	Standards C1 and C2 of the American Wood Preservers Association (AWPA) latest edition.
5. Rough Hardware:	"Specification for the Design, Fabrication, and Erection of Structural Steel for Buildings", of the American Institute of Steel Construction latest edition
6. Building Paper:	Federal Specification UU-B-790a, dated February 5, 1978.
7. Wood	Standard P-5 of the American Wood Preservers Institute, latest edition.

B. Standards:
All work shall conform to the Current Uniform Building Code and the American Institute of Timber Construction requirements:
C. Conflicting Requirements:
In the event of conflict between pertinent codes and regulations and the requirements of the referenced standards or these Specifications, the provisions of the more stringent shall govern.

1.02 PRODUCT HANDLING
Protection:Use all means necessary to protect lumber materials before, during and after delivery to the job site, and to protect the installed work and materials of other trades.

PART 2 PRODUCTS
2.01 IDENTIFICATION
A. Framing Lumber:Identify each piece with the grade stamp of the West Coast Lumber Inspection Bureau.
B. Plywood:Identify each sheet with the grade stamp of the American Plywood Association.
C. Redwood:Identify each piece with the grade stamp of the Redwood Inspection Service.
D. Other:Identify all other materials of this section by the appropriate stamp of the Agency listed in the reference standards, or by such other means as are acceptable in the advance by the Project Inspector.

2.02 LUMBER
A. General:
1. Framing lumber 5" and larger in the least dimension shall not contain boxed heart.
2. Beams shall not have splits or checks longer than the wide face dimension.
3. Moisture content shall be 19% maximum.
4. Finish shall be S4S, except that lumber may be S2E at unexposed framing.
5. Redwood shall be all heart wood.

B. Schedule:

1. Sills on Concrete	Foundation Grade Redwood, Grade marked at the mill, Paragraph 319 or No. 1 Grade Pressure Treated Douglas Fir.
2. Studs:2X4 and 2X6	Douglas Fir, No. 2, 1200f,
3. Structural Light Framing: 2" to 4" thick, 2" to 4" wide	Douglas Fir, No.2, 1450f,
4. Structural Joists 2" to 3" thick, 5" and wider	Douglas Fir, No.2, 1250f,
5. Structural Purlins 4" thick, 5" and wider	Douglas Fir, NO.2, 1250f
6. Beams & Stringers: 5" and thicker,	Douglas Fir, NO 1, 1300f
7. Posts	Douglas Fir, No. 1; 1200f, 1150c

2.03 PLYWOOD
A. Plywood Roof & WALL Sheathing: 5 ply, STRUC. I DOUGLAS FIR plywood, 15/32" thick unless otherwise noted on the drawings.

2.04 PRESSURE TREATMENT
A. Ammoniacal copper arsenite, conforming to AWPA Standard P-5 (Water-Borne Preservative): Chemonite, J.H. Baxter, or equal by McCormic & Baxter. Retention shall be 0.23 lb. per cu. ft. in accordance with AWPA Standards C1 and C2.

2.05 FASTENERS

A. Nails:	Domestic Common (unless otherwise noted) otherwise on Drawings) FederalSpecification FF-N-1-1. Hot-dipped galvanized at ext. locations.
B. Machine Bolts:	ASTM A-307
C. Lag Bolts:	Federal Specification FF-B-561.
D. Plain Washers:	Round, carbon steel, Federal Specification FF-W-92.

2.06 METAL FRAMING DEVICES

A. Steel Hardware:	ASTM A-36. Hot-dipped galvanized at exterior locations. Welds per A.W.S. requirements.
B. Framing hangers, Straps and Other Connectors:	Simpson or K C Metals. Hot-at exterior locations. Welds per A.W.S. requirements.

2.07 OTHER MATERIALS
A. All other materials, not specifically described but required for a complete and proper installation as shown on Drawings, shall be new, suitable for the intended use and subject to the acceptance by the Architect.

PART 3 EXECUTION
3.01 WORKMANSHIP
A. General:
All rough carpentry shall produce joints true, tight and well nailed with all members assembled in accordance with the Drawings and with all pertinent codes and regulations. Framing shall be straight, true and plumb.
B. Selection of Lumber Pieces:
1. Carefully select all members; select individual pieces so that knots and obvious defects will not interfere with placing knots for proper nailing or making proper connections.
2. Cut out and discard all defects which will render a piece unable to serve its intended function; lumber may be rejected by the Project Inspector whether or not it has been installed, for excessive warp, twist, bow, crook, mildew, fungus or mold, as well as for improper cutting and fitting.
C. Shimming:
Do not shim sills, joints, short studs, trimmers, headers, lintels or other framing components.

3.02 LUMBER TREATED WITH WOOD PRESERVATIVE
A. General:
Wood preservative, non-pressure, shall be applied as follows to all lumber other than Foundation Grade Redwood:
1. All wood embedded in or placed against concrete.
B. Treatment:
Perform all treatment in strict accordance with the published recommendations of the manufacturer of the treatment preservative, and a minimum of two hours before installation but after all cutting is completed on the members.
3.03 PRESSURE TREATED LUMBER
A. General:
Provide pressure treatment for all lumber other than Foundation Grade Redwood located within 1-1/2" of concrete.
B. Treatment:
Perform all pressure treatment in strict accordance with the published recommendations of the manufacturer of the treatment preservatives. Kiln dry to 19% maximum moisture content after treatment. Handle treated lumber and penetration damage in accordance with AWPA M-4.

3.04 GENERAL FRAMING
A. General:
1. In addition to all framing operations normal to the fabrication and erection shown on the Drawings, install all backing required for the work of other trades. Install furring, stripping, grounds, curbs, cants, etc. indicated, specified or required.
2. Set all horizontal or sloped members with crown up.
3. Do not notch, bore or cut members for pipes, ducts, conduits or other reasons except as shown on the Drawings or as specifically approved in advance by the Structural Engineer.
4. Joists and beams at same level shall be connected with metal framing devices, "U" type, unless noted otherwise.
B. Bearings:
1. Make all bearings full unless otherwise indicated on the Drawings. Set headers on edge, supported on each end by cripples.
2. Finish all bearing surfaces on which structural members are to rest so as to give sure and even support; where framing members slope, cut or notch the ends as required to give uniform bearing surface.

3.05 BLOCKING AND BRIDGING
A. Blocking:
1. Install all blocking as required by governing codes and as required to support all items of finish and to cut off all concealed draft openings, both vertical and horizontal, between ceiling and floor areas.
2. Install 2 X blocking at all intersections and edges of finished surfaces for bearing, and at all points where required to support fixtures, cabinets, hardware and equipment of any other trade. Blocking to receive fixtures shall be secured to framing with steel clips.
3. Install 2 X blocking between stud at 2'-0" centers vertically to provide nailing for all vertically applied board on board exterior siding and interior paneling.
4. Fire-block in the following specific locations:
a. In all stud walls at ceiling and floor levels.
b. In all stud walls, including stairs and furred spaces, so that the maximum dimension of each concealed space is not more than eight feet.
c. All other locations where openings could afford passage for rodents or flames.
B. Bridging:
1. Install wood solid blocking between joists where the span exceeds eight feet.
2. The distance between a line of bridging and a bearing shall not exceed eight feet.
3. Bridging may be omitted for roof and ceiling joists eight inches (nominal) in depth where the omission is permitted by code, except where otherwise indicated on the Drawings.
4. Install solid blocking between joists at all points of support and wherever sheathing or flooring is discontinuous.
5. Blocking may be omitted where joists rest on ribbons and are nailed to studs, and where joists are supported on metal hangers which are capable of providing lateral support.

3.06 STUD WALLS AND PARTITIONS
A. Studs:
Make all Studs single length, unspliced, and platform or balloon framed as shown on the drawings.
B. Corners and Intersections:
Unless noted otherwise on the Drawings, frame all corners and intersections with three or more studs and all required bearing for wall finish.

3.07 ALIGNMENT
A. On all framing members to receive a finished wall or ceiling, align the finish subsurface to vary not more than 1/8" from the plane of surfaces of adjacent framing and furring members.

3.08 INSTALLATION OF PLYWOOD SHEATHING
A. Placement:
1. Place all plywood with face grain perpendicular to supports and continuously over at least two supports, except where otherwise noted on the Drawings (see panelized roof system).
2. Center joints accurately over supports; unless noted otherwise on the Drawings, stagger the end joints of plywood panels to achieve a minimum of continuity of joints.
3. Nail all panel edges to framing members or blocking at least 1-1/2" thick. Space nails at panel edges as indicated on the Drawings or if not shown, in accordance with U.B.C. requirements. Place nails not less than 3/8" from panel edges and driven solidly into the support.
B. Protection of Plywood:
Protect all plywood from moisture by use of all required waterproof coverings until the plywood has in turn been covered with the next succeeding component or finish.

3.09 FASTENING
A. Nailing:
1. Use only domestic common wire nails or spikes of the dimensions shown on the Nailing Schedule, except where noted otherwise on the Drawings.
2. All nailing to conform to minimum requirements shown on the Drawings.
3. For conditions not covered on the Drawings, provide penetration into the piece receiving the point of not less than 1/2 the length of the nail or spike provided, however, 16d nails may be used to connect two pieces of two inch (nominal) thickness.
4. In diaphragms, the minimum penetration shall be 1-1/2" for 8d nails and 1-5/8" for 10d nails.
5. Do all nailing without splitting wood, preboring as required; replace all split members.
B. Bolting:
1. Drill holes 1/16" larger in diameter than the bolts being used; drill straight and true from one side only.
2. Bolt threads must not bear on wood; use washers under head and nut where both bear on wood; use washers under all nuts.
C. Lag Screws:
1. Anchorage embedment in piece lagged to shall not be less than 0.6 lag screw length nor less that eight times lag screw diameter.
2. Prebore holes for lag screws same diameter as root of thread; enlarge holes to shank diameter for

length of shank.
3. Screw, do not drive, all lag screws.
D. Washers:
1. Washers or bolts in shear shall have a net area of not less in thickness than 1/10 the length of the washer's longest side, or of malleable iron having a thickness of not less than 1/2 the bolt or screw diameter. use malleable iron washers in all exposed locations.
2. Washers shall have a bearing surface for the nut or head which is not less than equal in diameter to the long diameter of the nut or head.
E. Anchor Bolts:
1. Anchor sills on concrete with 5/8" diameter x 12" anchor bolts @ 48"o.c. maximum spacing, minimum 2 each piece and one within 9" of each end, unless noted otherwise on the Drawings.
2. Provide one anchor 9" of each side of holes of notches 1-1/8" or larger.

3.10 SEALING
A. Seal ends of beams 3" or thicker with two coats of sealer.
B. Seal ends of plywood that will be exposed to weather with three coats of sealer.

3.12 CLEANING UP
A. General:
Keep the premises in a neat, safe and orderly condition at all times during the execution of this portion of the work, free from accumulation of sawdust, cut-ends and debris.
B. Sweeping:
1. At the end of each working day, or more often if necessary, thoroughly sweep all surfaces where refuse from this portion of the work has settled.
2. Remove the refuse to the area of the job site set aside for its storage.

SECTION 06180 - GLUED LAMINATED MEMBERS

PART 1 GENERAL
1.01 WORK INCLUDED

Furnish all labor, materials, equipment and services necessary to provide all concrete reinforcing steel, complete in place, as shown on the drawings or specified herein.

1.02 QUALITY ASSURANCE
A. Manufacturer:Current Licensee of American Institute of Timber Construction (AITC).
B. Codes and Standards:
1. Standard Specifications for the Design and Fabrication of Structural Glued Laminated Lumber, published by West Coast Lumberman's Association.
2. Inspection Manual (AITC 200), published by the AITC.
3. Uniform Building Code, current edition.
4. Timber Construction Standards, published by the AITC.
5. West Coast Lumber Inspection Bureau Standard Grading and Dressing Rules (No. 16).

1.04 SUBMITTALS
A. For Review: Shop Drawings for each piece to be erected. Show dimensions, adhesive types, grades, combination symbols, erection details, etc.
B. For Information and Record: AITC Certificate of Conformance, indicating size, species, finish and glue for each member. Each certificate shall bear a statement signed by the inspector that the finished timbers comply with the requirements of the Contract Documents.

1.05 PRODUCT HANDLING
A. Protection: Protect glued laminated members before, during, and after installation and protect the installed work and materials of all other trades.
B. Replacements:In the event of damage, immediately make all repairs and replacements necessary to the approval of the Architect and at no additional cost to the Owner.

PART 2 PRODUCTS
2.01 IDENTIFICATION
Each member shall inconspicuously bear the quality mark of the AITC for the grade specified.

2.02 GLUED LAMINATED BEAMS
A. Species: Douglas Fir, Coast Region, Combination 24f, Table 1, graded in accordance with West Coast Lumber Bureau (WCLB) "Standard Grading and Dressing Rules for West Coast Lumber", January 1978 edition.
B. Design: Grade combination 24f, finger jointing on wide face of lamination are permitted providing fabrication is in strict accordance with AITC 117-71 Specifications. Lumber free of characteristics which interfere with uniform bending to required curvature. Lumber properly kiln dried for glue laminating, moisture content not less than 7% but not exceeding 16%. The range of moisture content of various lamination assembled into a single member shall not exceed 5%.
C. Adhesive: Resourcinal formaldehyde, conforming to Military Specification MIL-A-3978, Type I, Class I, Exterior (general services) Grade A.
D. Grade: All members shall be industrial Appearance Grade. All filler shall be natural wood filler. No synthetic fillers allowed. All exposed surfaces shall be resawn.
E. Pressure Treatment:(where required) Standards C1 & C2 of the American Wood Preservers Association (AWPA) latest edition.
F. Hardware: Provide all connection steel, metal brackets, hardware, bolts, etc. required for the assembly and erection of work specified under this Section.

PART 3 EXECUTION
3.01 FABRICATION
A. Fabricate all products of this Section in strict accordance with the referenced Standards, the original design, and the Shop Drawings bearing the Reviewer's Final Stamp.

3.02 INSTALLATION
A. Surface Conditions: Prior to installation of work of this Section, carefully inspect the installed work of all other trades and verify that all such work is complete to the point where this installation may properly commence. In the event of discrepancy, immediately notify the Architect.
B. Erection of glued laminated members: Use only that equipment which is of the proper design and capacity and only such personnel as are thoroughly skilled in such work and are completely familiar with the planned method of erection. Properly and adequately shore and brace all glued laminated beams. Leave all shoring and bracing in place until this work, and all other work necessary to provide stability for the structure is complete. All members shall be accurately and securely installed in place with proper fastenings. Camber as required. When camber is not indicated verify with the Engineer prior to fabrication.

STRUCTURAL ENGINEERING
1710 ZANKER ROAD
SUITE 103
SAN JOSE
CALIFORNIA 95112

408-436-0200

MILPITAS SENIOR CENTER PHASE 2
160 North Main
Milpitas, California
Project# 3368

RECORD DRAWING
4-1-93

REVISION	DATE
1 PHASE 2.	7-17-91
2 Phase 2 issue for review	10-22-91
3 issued for bid	12/4/91.

SPECIFICATIONS

JOB# : 90-001
DRAWN : MC
DATE : 7-17-91
SCALE : NONE

S5.3

2 - 913